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NOMURADS

Swiss Type CNC
Automatic Lathe Series

NOMURADS has been manufacturing swiss type CNC auto lathe for the last 75 years.
when you choose NOMURADS, you will have high precision, durability and innobation for your production.

English_ver02

NOMURADS

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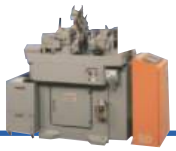
has been manufacturing swiss type CNC auto lathe for the last 75 years. When you choose NOMURADS, you will have high precision, durability and innovation for your production.

History

75 year's legacy for Swisstype CNC auto Lathes

1935

- Started lathe researching
  (Founder : Mr. Koji Nomura)
- Established Nomura



1960

- Sold 4,000 sets of can-type lathe
- Started selling NS1530, 8410 in 1945

1970

- Developed IC 10A
- Started exporting in 1964
- Started selling NC cam-type lathe

1980

- Developed CNC M-LO 160V
- Developed CNC M-300 KF
- Developed CNC M-500 16R, U2

1990

- Established NOMURA Auto Lathe Co., Ltd.
- 15,000 sets of cam-type lathe sold

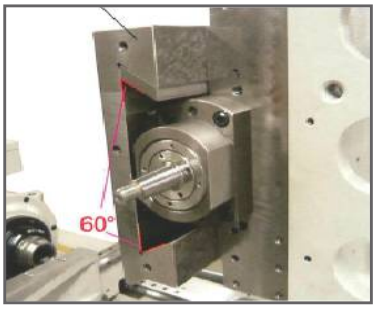
Present

- 14,000 sets of CNC lathe sold
- Developed 38DB, 38KM-XB, 20SB, 32J etc.
- Developed NOMURA Machining Center
- Developed Fanuc NC Machine lathe

Overseas Partners

NOMURADS Features

Dovetail structure



The rigidity of NOMURA DS machine is enhanced as its structure contacts the surface of both sides.

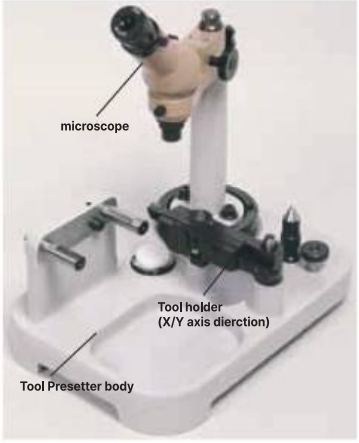
Hand scraping

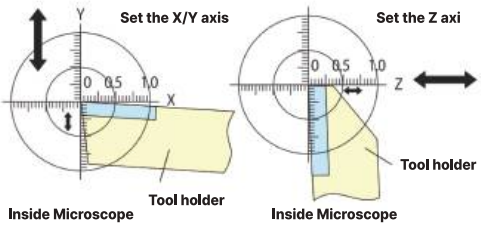
The weighty tool post is glided smoothly by our master artisans and high precision is enhanced as the result.

Integrated casting bed

Machine vibrations is absorbed and machining tolerance affected by the temperature change of cutting oil can be minimized as temperature turning is enacted with coolant tank located in the casting bed.

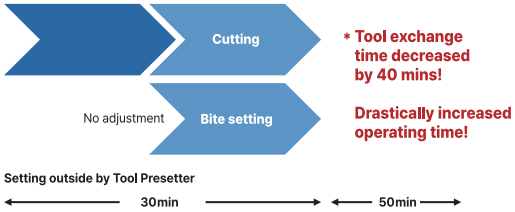
Tool presetter - Option



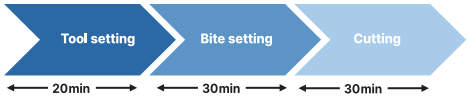


- Set the X/Y axis direction
- Set the Z axis direction. This is all you need to do.

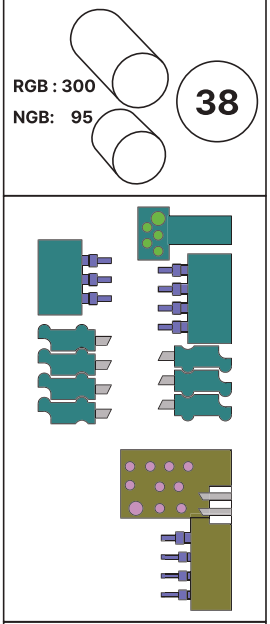
NOMURADS Tool Holder Type



Competitors' direct mounted (fixed bite) type



38DB



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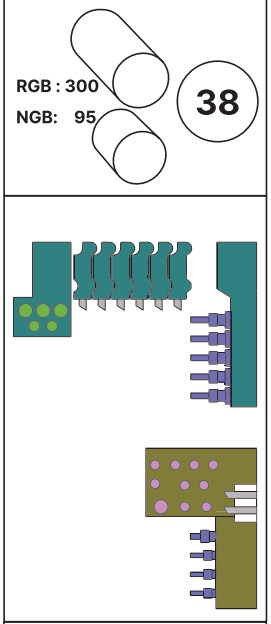
38J



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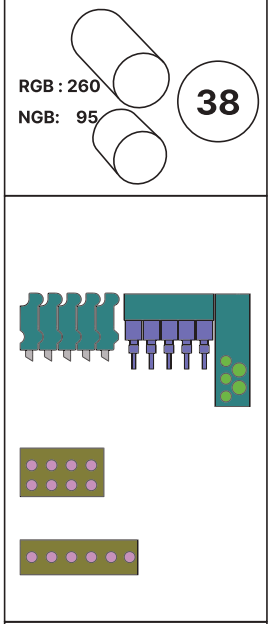
38KM



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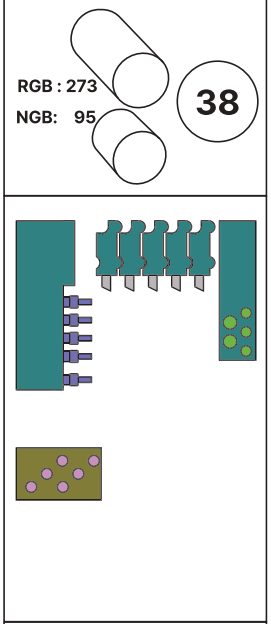

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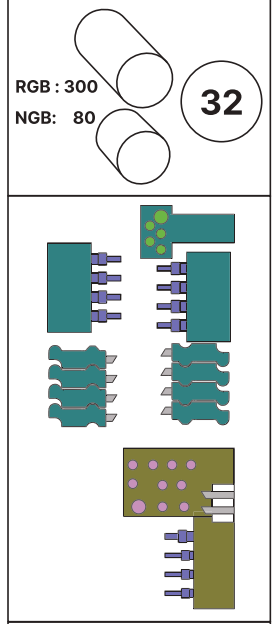
32DB



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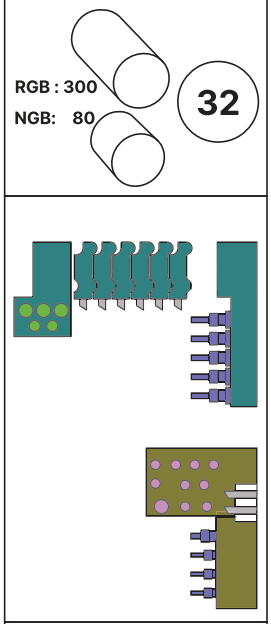
32J



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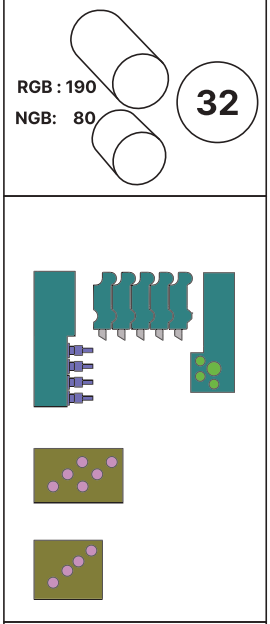

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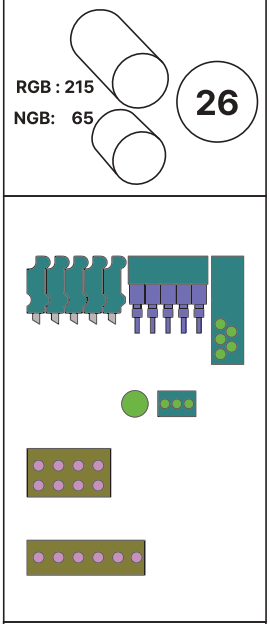
26KM



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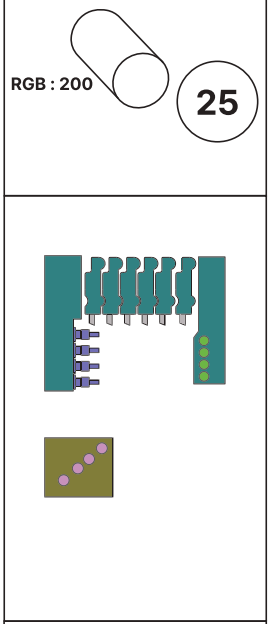

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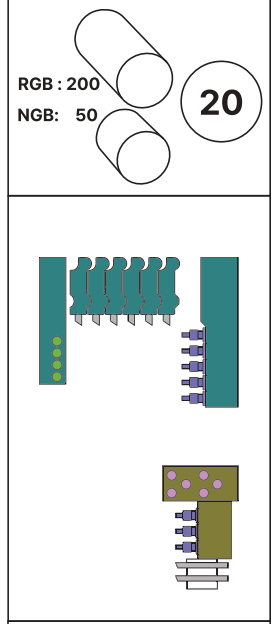

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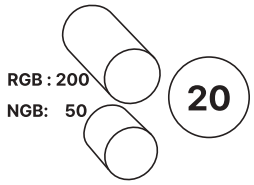
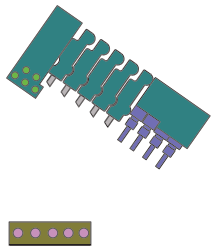
20SB





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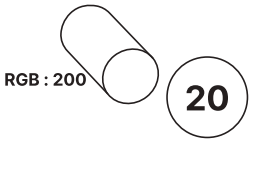

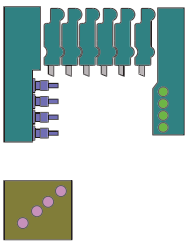

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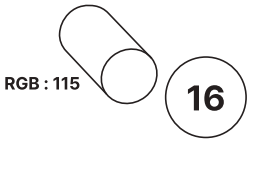
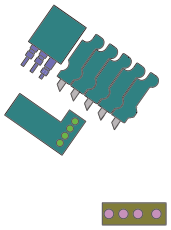
16SB7





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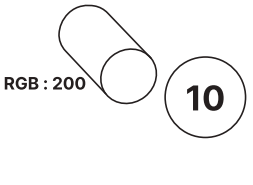

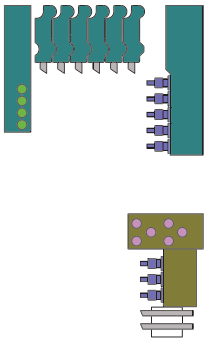

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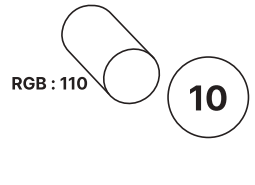
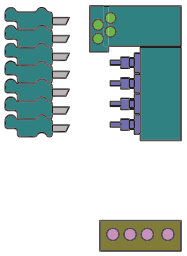
10EX2





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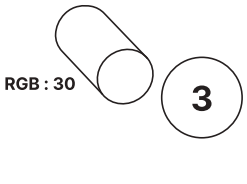

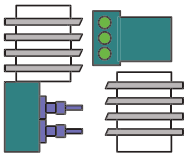

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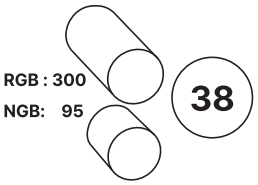
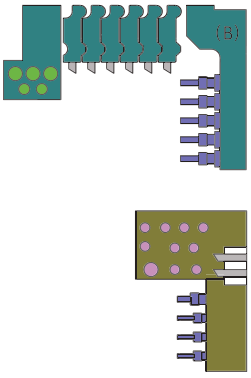
38J-XB





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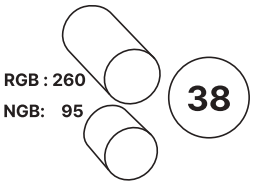
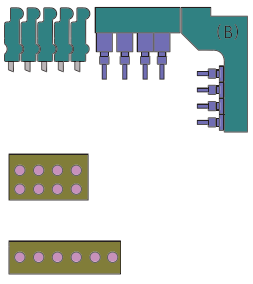
38KM-XB





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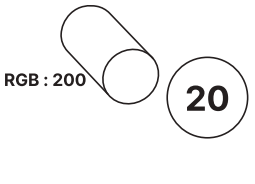

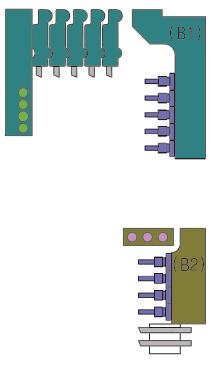

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SWISS TYPE CNC AUTOMATIC LATHE

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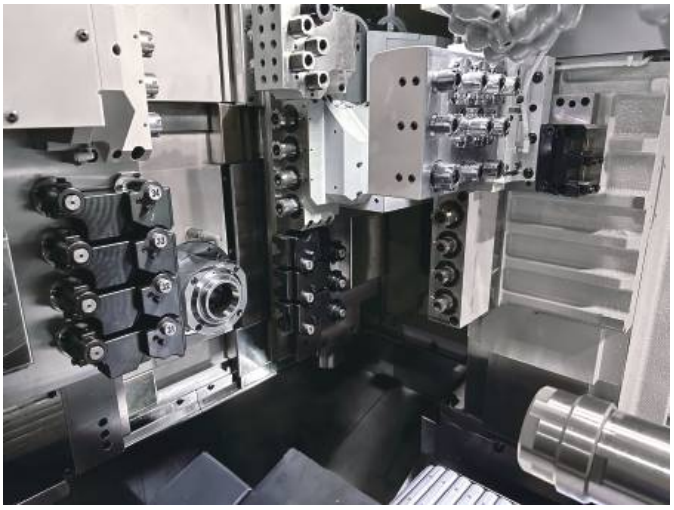
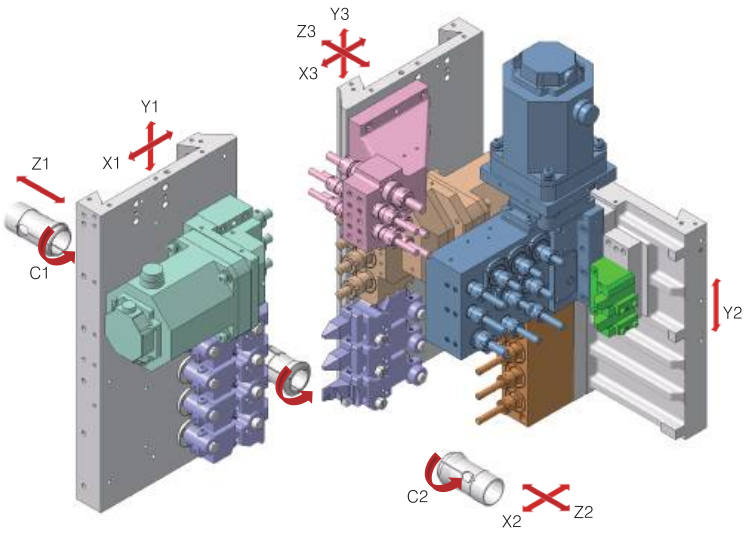


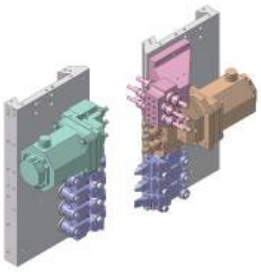
Tool Layout



Specifications

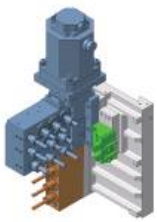
Content		Specification	Specification Value
			NN-38DB
Machining Capacity		Max. machining diameter	Φ38mm(OP. Ø42)
		Max. machining length	FB 330mm / 1chuck (RB 300mm)
		Max. parts unloading length	100mm
Spindle		Main spindle through-hole diameter	Φ44mm
		Spindle RPM (Main/Sub)	Max. 8,000rpm, (Servo RGB D: Max. 6,000rpm)
		Sub spindle chucking diameter	Φ38mm(OP. Ø42)
Tool	Type	Max. number of tools	34(op. 36)
		Max. machining drill	Φ13mm
		Max. machining tap	M10
	Main	O.D. tool	7 (□20x6,(cut)□20x1)
		I.D. tool	5 (ER20x1 + ER16x4) 50mm max
		Cross drill	7(ER20x7)
		Cross drill RPM	Max. 8,000rpm
	SUB	I.D. rotary tool	5 (ER16x5)
		I.D. fixed tool	[3 (ER16)/OP.4]+1(ER20)
		O.D. tool	□16x2(OP. □16x3) 75mm max
		Cross drill	4(ER20x1+ER16x3)
		Sub drill RPM	Max. 8,000rpm
Feed		Rapid feed rate	Z1, Y1, Z2, Y2, Y3 : 28m/min / X2 : 25m/min X1, Z3, X3 : 14m/min
		Min. command unit	0.0001mm
		C-axis min. command unit (Main/Sub)	0.0001°
Motor		Main spindle motor	7.5/5.5kW (Mitsubishi)/ 7.5/11 kW (Fanuc)
		Cross drill motor	1.5kW (Mitsubishi)/ 2.2 kW (Fanuc)
		Sub spindle motor	7.5/5.5kW (Mitsubishi)/ 7.5/11 kW (Fanuc)
		Sub cross drill motor	1.5kW (Mitsubishi)/ 2.2 kW (Fanuc)
		Z1, X1, Y1, Z2, X2, Y2 Z3, X3, Y3 axis motor	Z1, X1, Y1, Z2, X2, Y2, Z3, X3, Y3: 1.0kW (Mitsubishi) Z1, X1, Y1, Z2, X2, Z3, X3, Y3: 1.4kW, Y2: 1.6kW (Fanuc)
		Coolant pump (Main/Sub)	0.25kW x2
		Lubricant pump	0.015kW
Dimensions and etc.		Main spindle center height	1,120mm
		Input power capacity	29KVA
		Air pressure/Flow rate	0.6MPa.20L/min
		Coolant tank	260L
		WxDxH	3,050x1,400x2,075 mm
		Weight (Standard accessories included)	4,150kg
NC		NC (Mitsubishi/Fanuc)	M830VS (Mitsubishi)/ 31iB(Fanuc)
		NC display	15" Color LCD
		Memory capacity	500KB (Mitsubishi)/ 2 MB (Fanuc)
		No. of tool offset	333sets (Mitsubishi) / 128 Sets (Fanuc)

Main



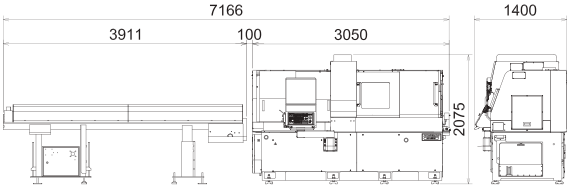
Turning tool	7 tools
Cross drill	7 tools
I.D tool	5 tools

Sub



Turning tool	2 tools
Cross drill	4 tools
I.D tool	5 tools
I.D tool (driven)	5 tools

Machine Layout



NN-38J

SWISS TYPE CNC AUTOMATIC LATHE

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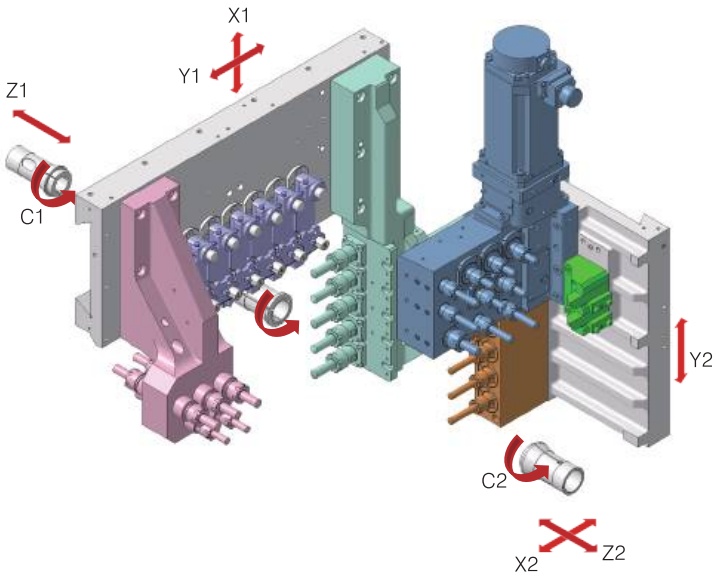
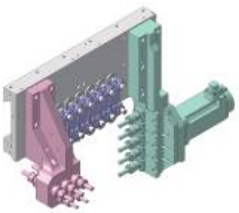
Tool Layout

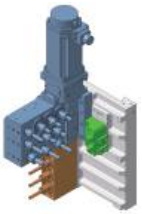


Main



Turning tool	5 tools
Cross drill	5 tools
I.D tool	5 tools
I.D tool (rear : OP)	5 tools

Sub

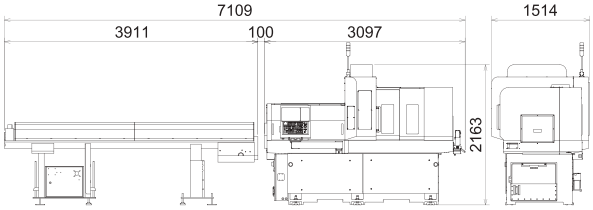


Turning tool	2 tools
Cross drill	4 tools
I.D tool	5 tools
I.D tool (driven)	5 tools

Specifications

Content		Specification	Specification Value
			NN-38J
Machining capacity		Max. machining diameter	Φ38mm
		Max. machining length	300mm / 1 chuck
		Max. parts unloading length	100mm
Spindle		Main spindle through-hole diameter	Φ43mm
		Spindle RPM (Main/Sub)	8,000rpm
		Sub spindle chucking diameter	Φ38mm
Tool	Type	Type	Standard
		Max. number of tools	32(OP : 33)
		Max. machining drill	Φ13mm
		Max. machining tap	M12
	Main	O.D. tool	6 (□16x150mm max)
		I.D. tool	5 (ER16X2, ER20x3)
		Cross drill	5 (ER20)
		Cross drill RPM	6,000rpm
	SUB	O.D. tool	2 (□16) (OP : 3)
		I.D. fixed tool	5 (ER16x4, ER20x1)
		I.D. rotary tool	5 (ER16)
		Cross drill	4 (ER16x3, ER20x1)
		Cross drill RPM	6,000rpm
Feed		Rapid feed rate	30m/min
		Min. command unit	0.0001mm
Motor		C-axis min. command unit (Main/Sub)	0.0001°
		Main spindle motor	7.5/5.5kW (Mitsubishi) / 11.0/7.5kW (Fanuc)
		Cross drill motor	1.5kW (Mitsubishi) / 2.2kW (Fanuc)
		Sub spindle motor	7.5/3.7kW (Mitsubishi) / 7.5/5.5kW (Fanuc)
		Sub rotary motor	1.5kW (Mitsubishi) / 2.2kW (Fanuc)
		Coolant pump (Main/Sub)	0.4kW
Dimensions and etc.		Lubricant pump	0.003kW
		Main spindle center height	1,100mm
		Input power capacity	24KVA
		Air pressure/Flow rate	0.6MPa. 45L/min
		Coolant tank	200L
		WxDxH	3,097x1,514x2,163mm
NC		Weight (Standard accessories included)	3,800kg
		NC UNIT	M80 Type A(Mitsubishi) / 0i-TF Plus(Fanuc)
		NC display	10.4" Color LCD
		Memory capacity	500KB (Mitsubishi) / 2MB (Fanuc)
		No. of tool offset	256 Sets (Mitsubishi)/ 128Sets (Fanuc)

Machine Layout

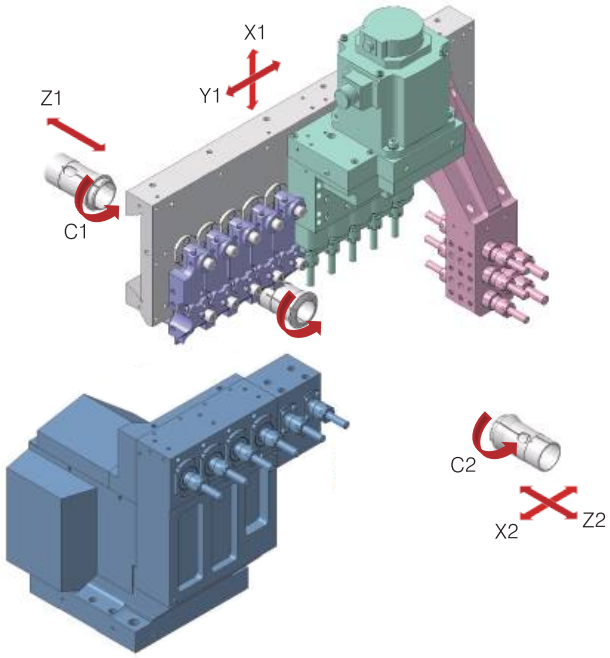


NN-38KM

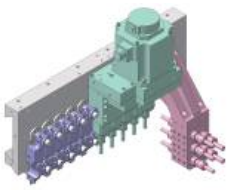
SWISS TYPE CNC AUTOMATIC LATHE

NOMURADS

Tool Layout

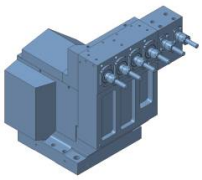


Main



Turning tool	5 tools
Cross drill	5 tools
I.D tool	5 tools
I.D tool (rear : OP)	5 tools

Sub

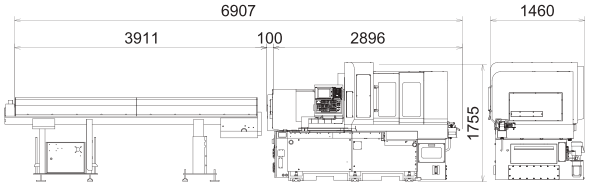


I.D tool	2 tools
I.D tool (driven)	4 tools

Specifications

Content		Specification	Specification Value
			NN-38KM
Machining Capacity		Max. machining diameter	Φ38mm
		Max. machining length	260mm / 1 chuck
		Max. parts unloading length	125mm
Spindle		Main spindle through-hole diameter	Φ43mm
		Spindle RPM (Main/Sub)	8,000rpm
		Sub spindle chucking diameter	Φ38mm
Tool	Type	Max. number of tools	26 (5 axis) / 28 (6 axis)
		Max. machining drill	Φ13
		Max. machining tap	M12
	Main	O.D. tool	5 (□16X150mm max)
		I.D. tool	5 (ER16X3+ER20X2) (OP : Rear 5)
		Cross drill	5 (ER16)
		Cross drill RPM	6,000rpm
	Sub	I.D. fixed tool	2 (ER16) (5 axis) / 4 (ER16) (6 axis)
		I.D. rotary tool	4 (ER16) (5 axis) / 4(ER16) (6 axis)
		Sub drill RPM	6,000rpm
Feed		Rapid feed rate	32m/min, (OP' Y2 : 24m/min)
		Min. command unit	0.0001mm
		C-axis min. command unit (Main/Sub)	0.0001°
Motor		Main spindle motor	7.5/5.5kW (Mitsubishi) 11.0/7.5kW (Fanuc)
		Cross drill motor	1.5kW (Mitsubishi) 2.2kW (Fanuc)
		Sub spindle motor	7.5/3.7kW (Mitsubishi) 7.5/5.5kW (Fanuc)
		Sub rotary motor	0.9kW (Mitsubishi) 1.0kW (Fanuc)
		Coolant pump	1.1kW
		Lubricant pump	0.003kW
Dimensions and etc.		Main spindle center height	1,025mm
		Input power capacity	24KVA
		Air pressure/Flow rate	0.6MPa. 45L/min
		Coolant tank	250L
		WxDxH	2,896x1,460x1,755 mm
		Weight (Standard accessories included)	3,800kg
NC		NC UNIT	M80 Type A(Mitsubishi) / 0i-TF Plus(Fanuc)
		NC display	8.4 Color TFT LCD(Mitsubishi) / 10.4 Color TFT LCD(Fanuc)
		Memory capacity	500KB(Mitsubishi) / 2MB(Fanuc)
		No. of tool offset	256sets(Mitsubishi) / 128sets(Fanuc)

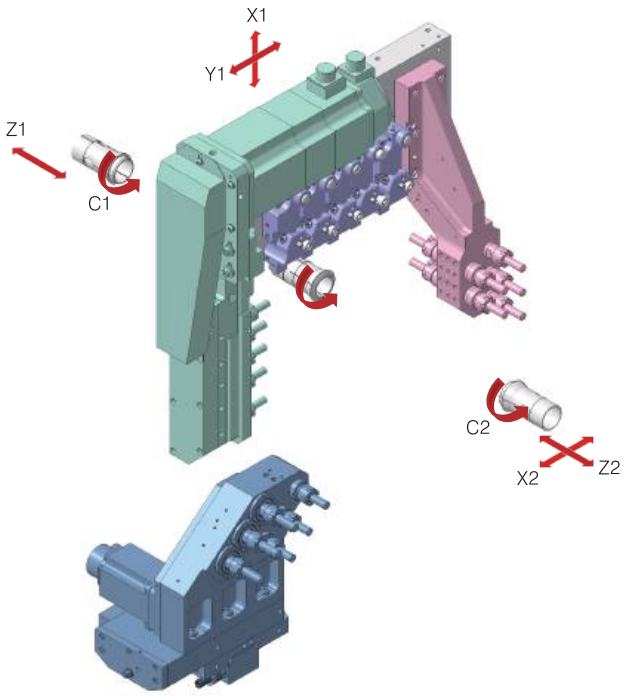
Machine Layout



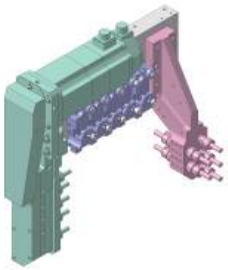
NN-38UB8

SWISS TYPE CNC AUTOMATIC LATHE

Tool Layout



Main



Turning tool	5 tools
Cross drill	5 tools
I.D tool	5 tools
I.D tool (rear : OP)	5 tools

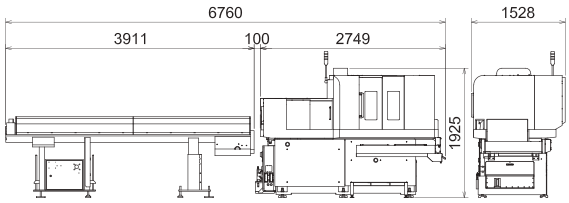
Sub

I.D tool	3 tools
I.D tool (driven)	3 tools

Specifications

Content		Specification	Specification Value	
			NN - 38UB8	
Machining capacity		Max. machining diameter	Φ38mm (OP : Φ42mm)	
		Max. machining length	273mm / 1 chuck	
		Max. parts unloading length	115mm	
Spindle		Main spindle through-hole diameter	Φ43mm	
		Spindle RPM (Main/Sub)	8,000rpm	
		Sub spindle chucking diameter	Φ38mm	
Tool	Type	Type	K	K2
		Max. number of tools	24	26
		Max. machining drill	Φ13mm	
		Max. machining tap	M8	
	Main	O.D. tool	5 (□20X150mm)	
		I.D. tool	5 (ER16X3+ER20X2) (OP : Rear 5)	
		Cross drill	5 (ER20)	
		Cross drill RPM	6,000rpm	
	SUB	I.D. fixed tool	2 (ER20)	3 (ER16x1+ER20x2)
		I.D. rotary tool	2 (ER20)	3 (ER20)
Feed		Rapid feed rate	30m/min	
		Min. command unit	0.0001mm	
		C-axis min. command unit (Main/Sub)	0.0001°	
Motor		Main spindle motor	7.5/5.5kW	
		Cross drill motor	1.5kW	
		Sub spindle motor	5.5/3.7kW	
		Sub rotary motor	0.9kW	
		Coolant pump (Main/Sub)	1.1kW	
		Lubricant pump	0.003kW	
		Main spindle center height	1,160mm	
Dimensions and etc.		Input power capacity	24KVA	
		Air pressure/Flow rate	0.6MPa. 45L/min	
		Coolant tank	370L	
		WxDxH	2,749x1,528x1925 mm	
		Weight (Standard accessories included)	3,600kg	
		NC UNIT	M80 Type A	
NC		NC display	8.4 Color TFT LCD	
		Memory capacity	500KB	
		No. of tool offset	256sets	

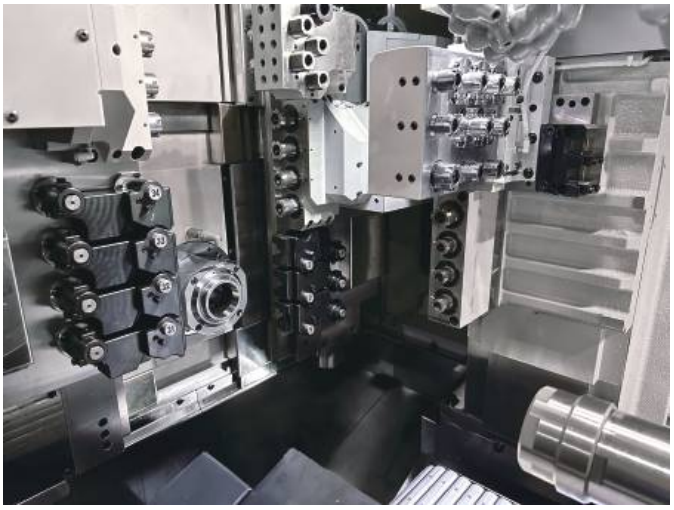
Machine Layout



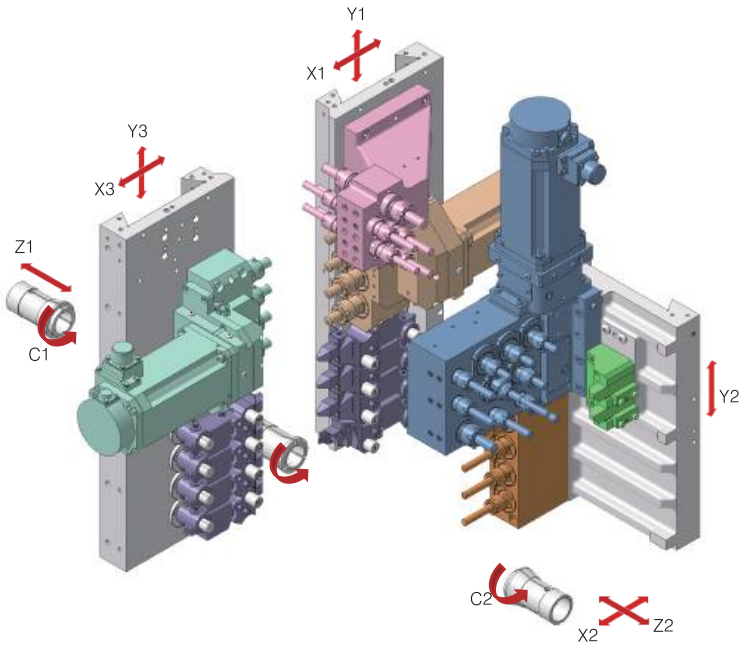
NN-32DB

SWISS TYPE CNC AUTOMATIC LATHE

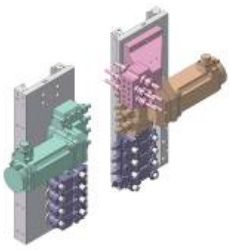
NOMURADS



Tool Layout



Main



Turning tool	8 tools
Cross drill	8 tools
I.D tool	5 tools

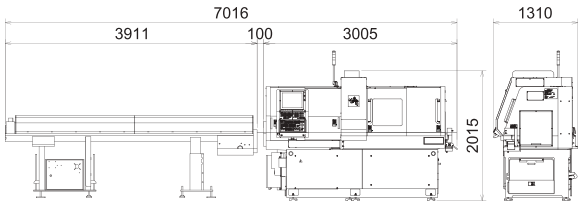
Sub

Turning tool	2 tools
Cross drill	4 tools
I.D tool	5 tools
I.D tool (driven)	5 tools

Specifications

Content		Specification	Specification Value
			NN-32DB
Machining capacity		Max. machining diameter	Φ32mm
		Max. machining length	300mm / 1 chuck
		Max. parts unloading length	100mm
Spindle		Main spindle through-hole diameter	Φ34mm
		Spindle RPM (Main/Sub)	8,000rpm
		Sub spindle chucking diameter	Φ32mm
Tool	Type	Type	Standard
		Max. number of tools	36 (OP : 38)
		Max. machining drill	Φ10mm
		Max. machining tap	M8
	Main	O.D. tool	8 (□16x4)x2
		I.D. tool	5 (ER20x1)+(ER16X4)
		Cross drill	8 (ER20x4)x2
		Cross drill RPM	6,000rpm
	SUB	O.D. tool	2 (□16x2) (OP : 3)
		I.D. fixed tool	4(ER16x3)+(ER20x1) (OP : 5(ER16x4)+(ER20x1))
		I.D. rotary tool	5 (ER16)
		Cross drill	4 (ER20x1+ER16x3)
		Cross drill RPM	6,000rpm
Feed		Rapid feed rate	Z1,Y1,Y3,Z2,X2,Y2 : 28m/min X1,X3 : 20m/min
		Min. command unit	0.0001mm
		C-axis min. command unit (Main/Sub)	0.0001°
Motor		Main spindle motor	7.5/3.7kW (Mitsubishi), 9.0/5.5kW (Fanuc)
		Cross drill motor	1.5kW (Mitsubishi), 2.2kW (Fanuc)
		Sub spindle motor	7.5/3.7kW (Mitsubishi), 9.0/5.5kW (Fanuc)
		Sub rotary motor	1.5kW (Mitsubishi), 2.2kW (Fanuc)
		Z1, X1, Y1, Z2, X2, Y2 Z3, X3, Y3 axis motor	Z1, X1, Y1, Z2, X2, Y2, X3, Y3: 1.0kW (Mitsubishi) Z1, X1, Y1, Z2, X2, X3, Y3: 1.4kW, Y2: 1.6kW (Fanuc)
		Lubricant pump	0.015kW
Dimensions and etc.		Main spindle center height	1,060mm
		Input power capacity	25KVA
		Air pressure/Flow rate	0.6MPa 45L/min
		Coolant tank	205L
		WxDxH	3,005X1,310X2,015mm
		Weight (Standard accessories included)	3,850kg
NC		NC UNIT	M830 (Mitsubishi) / 31iB(Fanuc)
		NC display	15.0 Color TFT LCD
		Memory capacity	500KB(Mitsubishi) / 2MB(Fanuc)
		No. of tool offset	400sets(Mitsubishi) / 128sets(Fanuc)

Machine Layout

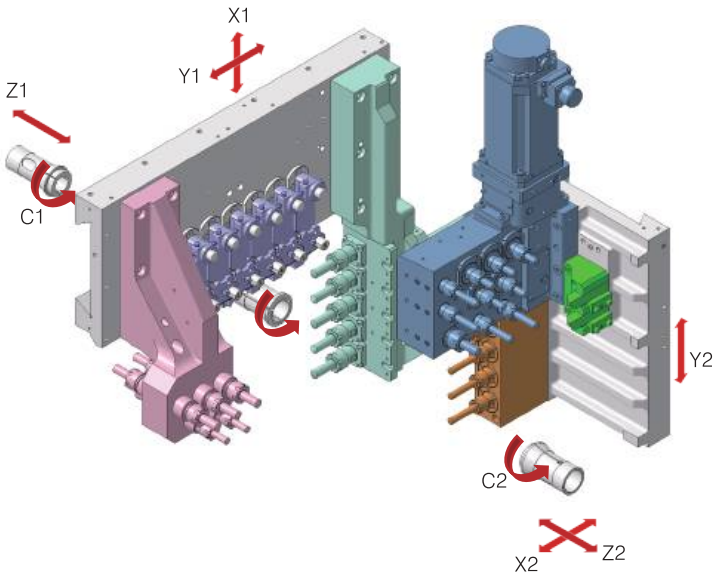


NN-32J

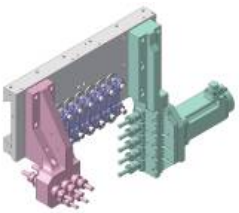
SWISS TYPE CNC AUTOMATIC LATHE

NOMURADS

Tool Layout

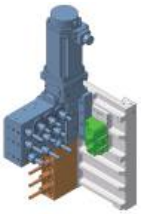


Main



Turning tool	5 tools
Cross drill	5 tools
I.D tool	5 tools
I.D tool (rear : OP)	5 tools

Sub

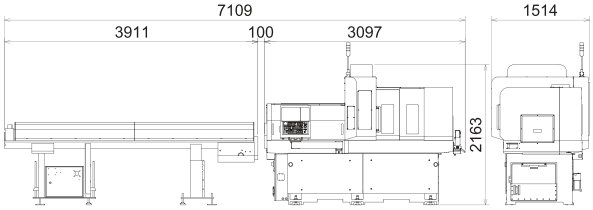


Turning tool	2 tools
Cross drill	4 tools
I.D tool	5 tools
I.D tool (driven)	5 tools

Specifications

Content		Specification	Specification Value
			NN-32J
Machining capacity		Max. machining diameter	Φ32mm
		Max. machining length	300mm / 1 chuck
		Max. parts unloading length	100mm
Spindle		Main spindle through-hole diameter	Φ34mm
		Spindle RPM (Main/Sub)	8,000rpm
		Sub spindle chucking diameter	Φ32mm
Tool	Type	Type	Standard
		Max. number of tools	32(OP : 33)
		Max. machining drill	Φ10mm
		Max. machining tap	M8
	Main	O.D. tool	6 (□16x150mm max)
		I.D. tool	5 (ER16X2, ER20x3)
		Cross drill	5 (ER20)
		Cross drill RPM	6,000rpm
	SUB	O.D. tool	2 (□16) (OP : 3)
		I.D. fixed tool	5 (ER16x4, ER20x1)
		I.D. rotary tool	5 (ER16)
		Cross drill	4 (ER16x3, ER20x1)
		Cross drill RPM	6,000rpm
Feed		Rapid feed rate	30m/min
		Min. command unit	0.0001mm
Motor		C-axis min. command unit (Main/Sub)	0.0001°
		Main spindle motor	7.5/3.7kW (Mitsubishi) / 9.0/5.5kW (Fanuc)
		Cross drill motor	1.5kW (Mitsubishi) / 2.2kW (Fanuc)
		Sub spindle motor	7.5/3.7kW (Mitsubishi) / 9.0/5.5kW (Fanuc)
		Sub rotary motor	1.5kW (Mitsubishi) / 2.2kW (Fanuc)
		Coolant pump (Main/Sub)	0.4kW
Dimensions and etc.		Lubricant pump	0.003kW
		Main spindle center height	1,100mm
		Input power capacity	24KVA
		Air pressure/Flow rate	0.6MPa. 45L/min
		Coolant tank	200L
		WxDxH	3,097x1,514x2,163mm
NC		Weight (Standard accessories included)	3,800kg
		NC UNIT	M80 Type A(Mitsubishi) / 0i-TF Plus(Fanuc)
		NC display	10.4" Color LCD
		Memory capacity	500KB (Mitsubishi) / 2MB (Fanuc)
		No. of tool offset	256 Sets (Mitsubishi)/ 128Sets (Fanuc)

Machine Layout

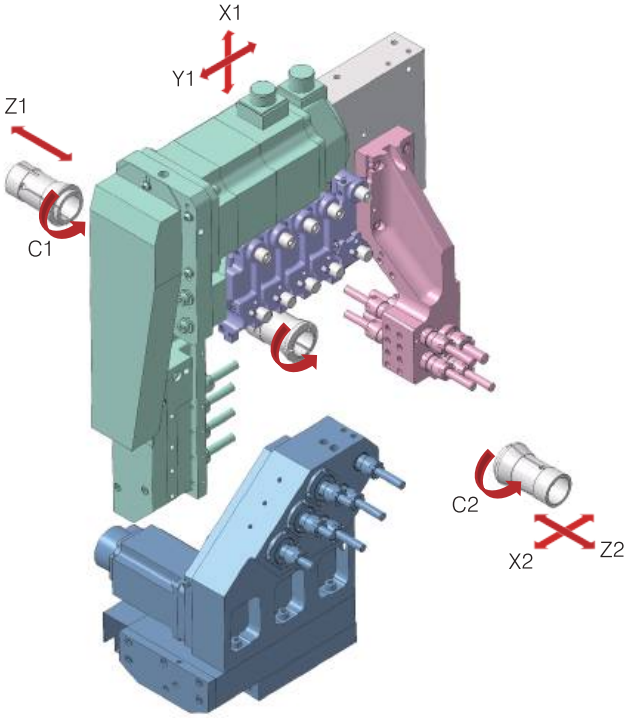


NN-32UB8

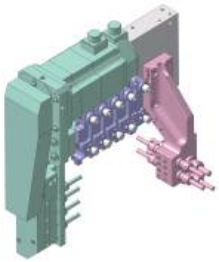
SWISS TYPE CNC AUTOMATIC LATHE

NOMURADS

Tool Layout



Main



Turning tool	5 tools
Cross drill	4 tools
I.D tool	4 tools
I.D tool (rear : OP)	4 tools

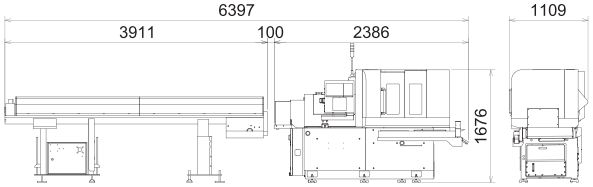
Sub

I.D tool	3 tools
I.D tool (driven)	3 tools

Specifications

Content		Specification	Specification Value		
			32UB8		
Machining capacity		Max. machining diameter	Φ32mm		
		Max. machining length	190mm / 1 chuck		
		Max. parts unloading length	93mm		
Spindle		Main spindle through-hole diameter	Φ34mm		
		Spindle RPM (Main/Sub)	8,000rpm/6,000rpm		
		Sub spindle chucking diameter	Φ32mm		
Tool	Type	Type	Standard	K	K2
		Max. number of tools	21(OP : 22)		23(OP : 24)
		Max. machining drill	Φ10mm		
		Max. machining tap	M8		
	Main	O.D. tool	5 (□12.7x3+□16X2X150mm)		
		I.D. tool	4 (ER16X3+ER20X1) (OP : Rear 4)		
		Cross drill	4 (ER16) (OP : 5)		
		Cross drill RPM	6,000rpm		
	SUB	O.D. tool	1 (□10)	–	–
		I.D. fixed tool	3 (ER16)	2 (ER16)	3 (ER16)
		I.D. rotary tool	–	2 (ER16)	3 (ER16)
Feed		Rapid feed rate	30m/min		
		Min. command unit	0.0001mm		
		C-axis min. command unit (Main/Sub)	0.0001°		
Motor		Main spindle motor	5.5/3.7kW(Mitsubishi) / 7.5/5.5kW(Fanuc)		
		Cross drill motor	1.5kW(Mitsubishi) / 1.0kW(Fanuc)		
		Sub spindle motor	3.7/1.5kW(Mitsubishi) / 2.2/1.5kW(Fanuc)		
		Sub rotary motor	0.9kW(Mitsubishi) / 1.0kW(Fanuc)		
		Coolant pump (Main/Sub)	0.25kW		
		Lubricant pump	0.003kW		
Dimensions and etc.		Main spindle center height	1,000mm		
		Input power capacity	20KVA		
		Air pressure/Flow rate	0.6MPa.45L/min		
		Coolant tank	125L		
		WxDxH	2,386 x 1,109 x 1,676mm		
		Weight (Standard accessories included)	2,450kg		
NC		NC UNIT	M80 Type A(Mitsubishi) / 0i-TF Plus(Fanuc)		
		NC display	8.4 Color TFT LCD(Mitsubishi) / 10.4 Color TFT LCD(Fanuc)		
		Memory capacity	500KB(Mitsubishi) / 2MB(Fanuc)		
		No. of tool offset	256sets(Mitsubishi) / 128sets(Fanuc)		

Machine Layout

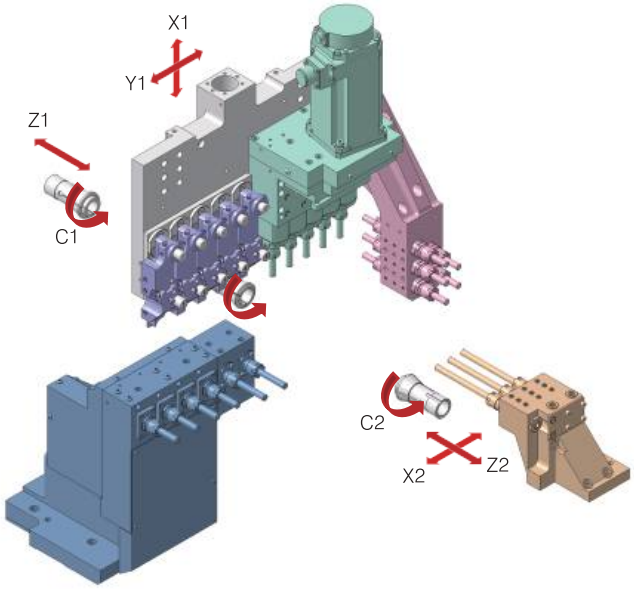


NN-26KM

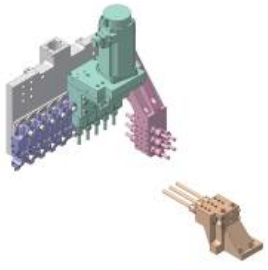
SWISS TYPE CNC AUTOMATIC LATHE

NOMURADS

Tool Layout

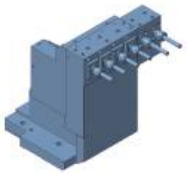


Main



Turning tool	5 tools
Cross drill	5 tools
I.D tool	5+3 tools
I.D tool (rear : OP)	5 tools

Sub

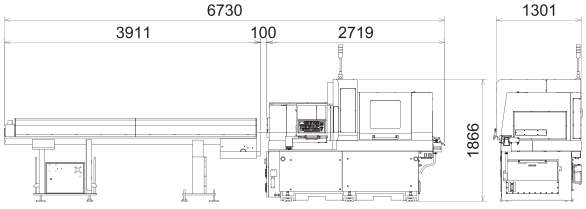


I.D tool(OP)	2 tools
I.D tool (driven)	4 tools

Specifications

Content		Specification	Specification Value
Machining Capacity		Max. machining diameter	Φ26mm
		Max. machining length	215mm/1chuck (GL : 65mm)
		Max. parts unloading length	100mm
Spindle		Main spindle through-hole diameter	Φ27mm
		Spindle RPM (Main/Sub)	Max. 10,000rpm
		Sub spindle chucking diameter	Φ26mm
Tool	Type	Max. number of tools	27(5축) / 31(6축)
		Max. machining drill	Φ10mm
		Max. machining tap	M8
	Main	O.D. tool	5 (□16X150mm max)
		I.D. tool	5 (ER16) (OP' Rear 5)
		Cross drill	5 (ER16)
		Cross drill RPM	Max. 8,000rpm(Mitsubishi) / 6,000rpm(FANUC)
	Sub	Long drill device	3 (ER16)
		I.D. tool	4 (ER16) : 6축
		Eccentric tool	4 (ER16) : 5축 / 4 (ER16) : 6축
Feed		Eccentric rotation speed	Max. 6,000rpm
		Rapid feed rate	32m/min, (OP' Y2 : 24m/min)
		Min. command unit	0.0001mm
Motor		C-axis min. command unit (Main/Sub)	0.0001°
		Main spindle motor	5.5/3.7kW(Mitsubishi/FANUC)
		Cross drill motor	1.5kW(Mitsubishi) / 2.2kW(FANUC)
		Sub spindle motor	3.7/2.2kW(Mitsubishi/FANUC)
		Sub cross drill motor	0.9kW(Mitsubishi) / 1.0kW(FANUC)
		Coolant pump	0.4kW
		Lubricant pump	0.015kW
		Main spindle center height	1,050mm
Dimensions and etc.		Input power capacity	16KVA
		Air pressure/Flow rate	0.6MPa. 40L/min
		Coolant tank	150L
		WxDxH	2,719x1,301x1,866 mm
		Weight (Standard accessories included)	3,800kg
		NC (Mitsubishi/Fanuc)	M80V Type A(Mitsubishi)/ 0i-TF(FANUC)
NC		NC display	10.4 Color TFT LCD
		Memory capacity	500kB(Mitsubishi) /1MB(FANUC)
		No. of tool offset	256sets(Mitsubishi) / 128sets(FANUC)

Machine Layout

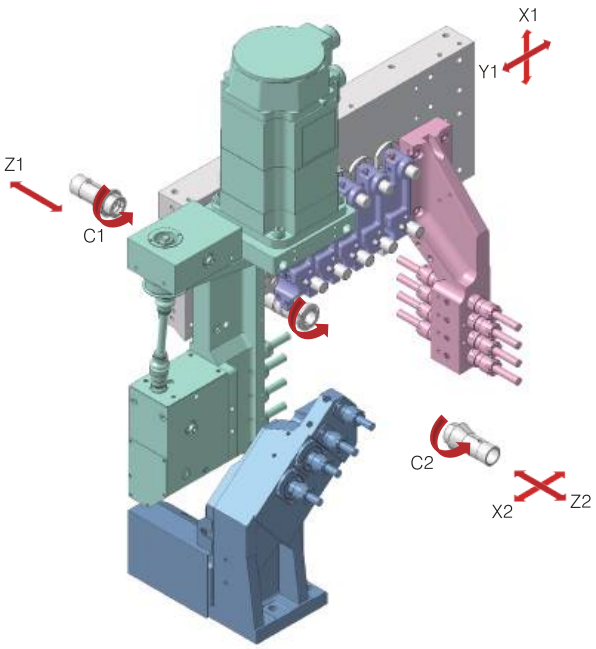


NN-20/25UB8

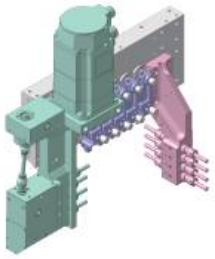
SWISS TYPE CNC AUTOMATIC LATHE

NOMURADS

Tool Layout



Main



Turning tool	5 tools
Cross drill	4 tools
I.D tool	4 tools
I.D tool (rear : OP)	4 tools

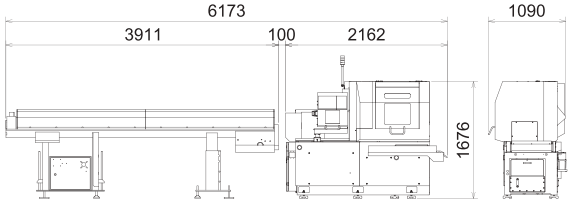
Sub

I.D tool	2 tools
I.D tool (driven)	2 tools

Specifications

Content		Specification	Specification Value	
			NN-20/25UB8	
Machining capacity		Max. machining diameter	Φ20mm/Φ25mm	
		Max. machining length	200mm / 1 chuck	
		Max. parts unloading length	105mm	
Spindle		Main spindle through-hole diameter	Φ24mm/Φ27mm	
		Spindle RPM (Main/Sub)	10,000rpm / 8,000rpm	
		Sub spindle chucking diameter	Φ20mm/Φ25mm	
Tool	Type	Type	Standard	K
		Max. number of tools	21	
		Max. machining drill	Φ10mm	
		Max. machining tap	M8	
	Main	O.D. tool	5 (□12.7x150) / 5 (□12.7x3+□16x2x150)	
		I.D. tool	4 (ER16) (OP: Rear 4)	
		Cross drill	4 (ER16)	
		Cross drill RPM	6,000rpm	
	SUB	O.D. tool	1 (□10x80)	–
		I.D. fixed tool	3(ER16)	2(ER16)
		I.D. rotary tool	–	2(ER16)
FEED		Rapid feed rate	30m/min	
		Min. command unit	0.0001mm	
		C-axis min. command unit (Main/Sub)	0.0001°	
Motor		Main spindle motor	3.7/2.2kW	
		Cross drill motor	0.75kW(Mitsubishi)/1.0kW(Fanuc)	
		Sub spindle motor	1.5/0.55kW(Mitsubishi)/2.2/1.5kW(Fanuc)	
		Sub rotary motor	0.4kW(Mitsubishi)/0.5kW(Fanuc)	
		Coolant pump (Main/Sub)	0.25kW	
		Lubricant pump	0.003kW	
Dimensions and etc.		Main spindle center height	1,000mm	
		Input power capacity	14KVA	
		Air pressure/Flow rate	0.6MPa.35L/min	
		Coolant tank	110L	
		WxDxH	2,162x1,090x1,676mm/2,300x1,090x1,676mm	
		Weight (Standard accessories included)	2,135kg	
NC		NC UNIT	M80 Type A(Mitsubishi) / 0i-TF Plus(Fanuc)	
		NC display	8.4 Color TFT LCD(Mitsubishi) 10.4 Color TFT LCD(Fanuc)	
		Memory capacity	500KB(Mitsubishi) / 2MB(Fanuc)	
		No. of tool offset	256sets(Mitsubishi) / 128sets(Fanuc)	

Machine Layout

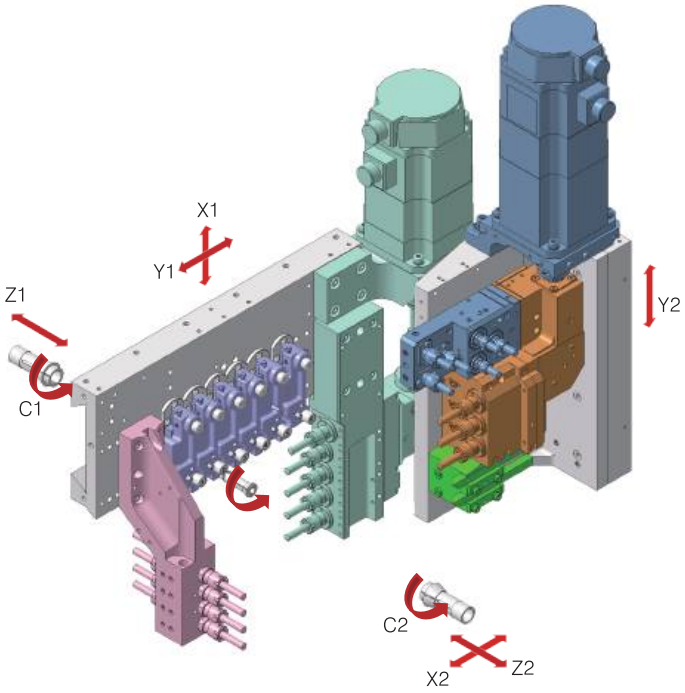


NN-10J / 20J3(6)

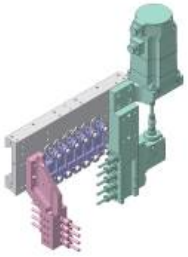
SWISS TYPE CNC AUTOMATIC LATHE

NOMURADS

Tool Layout



Main



Turning tool	6 tools
Cross drill	4 tools
I.D tool	5 tools
I.D tool (rear : OP)	5 tools

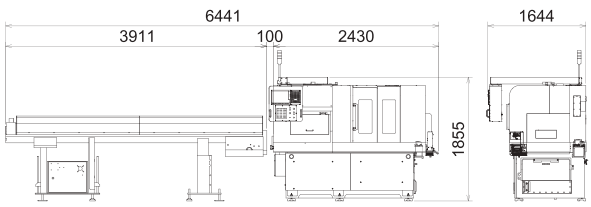
Sub

Turning tool	2 tools
Cross drill	3 tools
I.D tool	3 tools
I.D tool (driven)	3 tools

Specifications

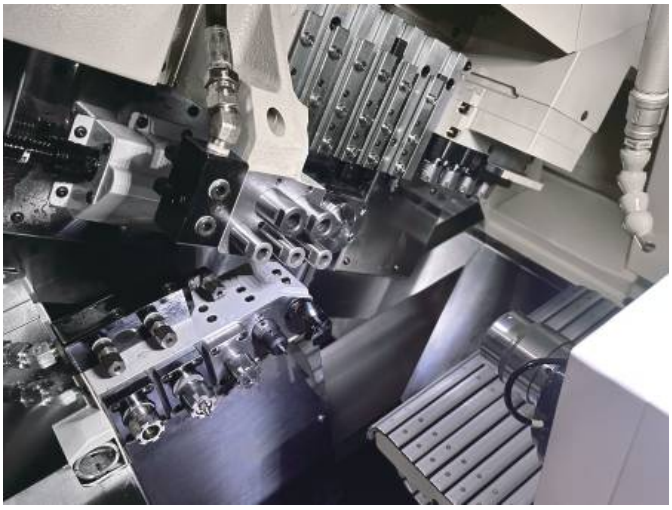
Content		Specification	Specification Value	
			NN-10J	NN-20J3(6)
Machining capacity		Max. machining diameter	Φ10mm	Φ20mm
		Max. machining length	200mm / 1 chuck	
		Max. parts unloading length	93mm	
Spindle		Main spindle through-hole diameter	Φ11.5mm	Φ23mm
		Spindle RPM (Main/Sub)	15,000rpm	10,000rpm
		Sub spindle chucking diameter	Φ10mm	Φ20mm
Tool	Type	Max. number of tools	30	
		Max. machining drill	Φ7mm	Φ10mm
		Max. machining tap	M6	M8
	Main	O.D. tool	6 (□12.7X150mm max)	
		I.D. tool	4 (ER16) (OP : Rear 4)	
		Cross drill	5 (ER16)	
		Cross drill RPM	6,000rpm	
	SUB	O.D. tool	2 (□12.7X150mm max)	
		I.D. fixed tool	3 (ER16)	
		I.D. rotary tool	3 (ER11)	
		Cross drill	3 (ER16)	
		Cross drill RPM	6,000rpm	
Feed		Rapid feed rate	X1,Y1,X2,Y2 : 28m/min Z1,Z2 : 30m/min	
		Min. command unit	0.0001mm	
		C-axis min. command unit (Main/Sub)	0.0001°	
Motor		Main spindle motor	3.7/1.5kW	
		Cross drill motor	1.5KW(Mitsubishi) / 2.2kW(Fanuc)	
		Sub spindle motor	3.7/1.5kW	
		Sub rotary motor	1.5KW(Mitsubishi) / 2.2kW(Fanuc)	
		Coolant pump (Main/Sub)	0.25kW X 2	
		Lubricant pump	0.015kW	
Dimensions and etc.		Main spindle center height	1,010mm	
		Input power capacity	17KVA	
		Air pressure/Flow rate	0.6MPa. 30L/min	0.6MPa. 35L/min
		Coolant tank	160L	
		WxDxH	2,430x1,644x1,855 mm	
		Weight (Standard accessories included)	2,700kg	
NC		NC UNIT	M80 Type A(Mitsubishi) / 0i-TF Plus(Fanuc)	
		NC display	10.4 Color TFT LCD	
		Memory capacity	500KB(Mitsubishi) / 2MB(Fanuc)	
		No. of tool offset	256sets(Mitsubishi) /128sets(Fanuc)	

Machine Layout

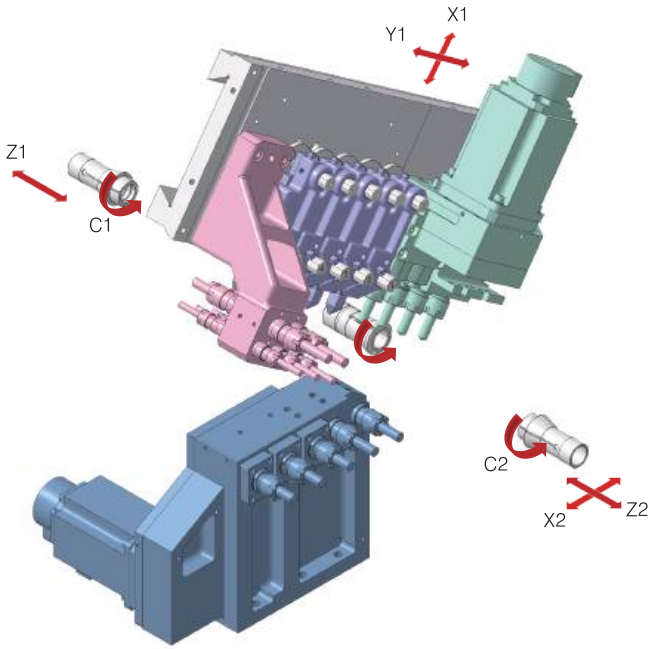


NN-20SB

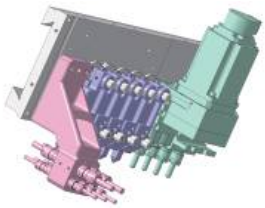
SWISS TYPE CNC AUTOMATIC LATHE



Tool Layout

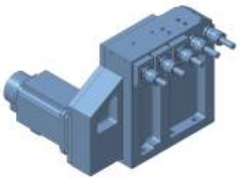


Main



Turning tool	5 tools
Cross drill	4 tools
I.D tool	5 tools
I.D tool (rear : OP)	5 tools

Sub

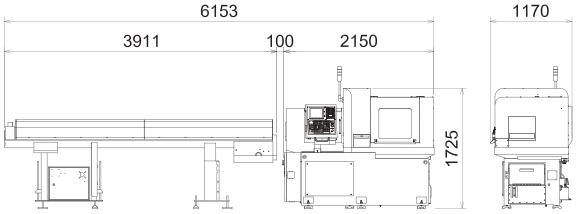


I.D tool	3 tools
I.D tool (driven)	2 tools

Specifications

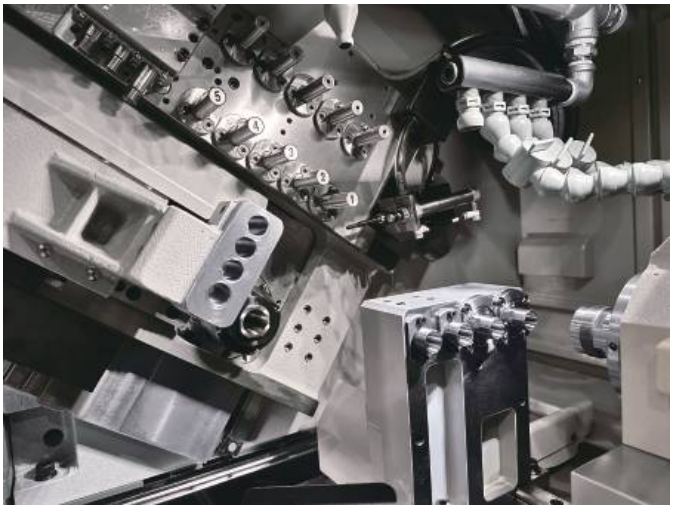
Content		Specification	Specification Value	
			NN-20SB	
Machining capacity		Max. machining diameter	Φ20mm	
		Max. machining length	200mm / 1 chuck	
		Max. parts unloading length	120mm	
Spindle		Main spindle through-hole diameter	Φ23mm	
		Spindle RPM (Main/Sub)	10,000rpm	
		Sub spindle chucking diameter	Φ20mm	
Tool	Type	Max. number of tools	24	
		Max. machining drill	Φ10mm	
		Max. machining tap	M10	
	Main	O.D. tool	5 (□12.7X150mm max)	
		I.D. tool	5 (ER11x3 +ER16x2) (OP : Rear 5)	
		Cross drill	4 (ER16)	
		Cross drill RPM	6,000rpm	
	SUB	I.D. fixed tool	3 (ER16)	
		I.D. rotary tool	2 (ER16)	
		Sub drill RPM	6,000rpm	
Feed		Rapid feed rate	30m/min X1: 20m/min, Y1 : 24m/min	
		Min. command unit	0.0001mm	
		C-axis min. command unit (Main/Sub)	0.0001°	
Motor		Main spindle motor	3.7/1.5kW	
		Cross drill motor	0.9kW (Mitsubishi)	1.0kW (Fanuc)
		Sub spindle motor	3.7/1.5kW	
		Sub rotary motor	0.9kW (Mitsubishi)	1.0kW (Fanuc)
		Coolant pump (Main/Sub)	0.25kW	
		Lubricant pump	0.003kW	
Dimensions and etc.		Main spindle center height	1,050mm	
		Input power capacity	13KVA	
		Air pressure/Flow rate	0.6MPa. 35L/min	
		Coolant tank	120L	
		WxDxH	2,150x1,170x1,725 mm	
		Weight (Standard accessories included)	1,950kg	
NC		NC UNIT	M80 Type A (Mitsubishi)	0i TF Plus (Fanuc)
		NC display	8.4 Color TFT LCD (Mitsubishi)	10.4 Color TFT LCD(Fanuc)
		Memory capacity	500KB (Mitsubishi)	2MB (Fanuc)
		No. of tool offset	256sets (Mitsubishi)	128sets (Fanuc)

Machine Layout

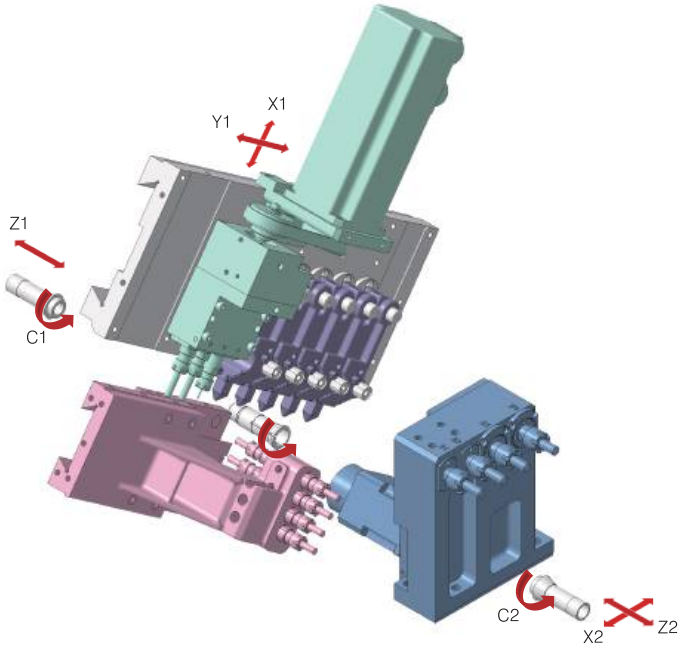


NN-16SB7

SWISS TYPE CNC AUTOMATIC LATHE



Tool Layout



Main

Turning tool	5 tools
Cross drill	3 tools
I.D tool	4 tools
I.D tool (rear : OP)	4 tools

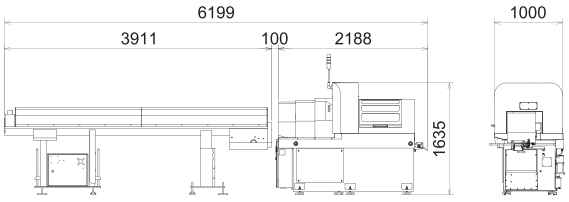
Sub

I.D tool	2 tools
I.D tool (driven)	2 tools

Specifications

Content		Specification	Specification Value
			NN-16SB7
Machining capacity		Max. machining diameter	Φ16mm
		Max. machining length	115mm / 1 chuck
		Max. parts unloading length	80mm
Spindle		Main spindle through-hole diameter	Φ17mm
		Spindle RPM (Main/Sub)	10,000rpm / 7,000rpm
		Sub spindle chucking diameter	Φ16mm
Tool	Type	Max. number of tools	20
		Max. machining drill	Φ7mm
		Max. machining tap	M6 / M8
	Main	O.D. tool	5 (□12.7X130mm max)
		I.D. tool	4 (ER11) (OP:Rear 4)
		Cross drill	3 (ER11)
		Cross drill RPM	8,000rpm
	SUB	I.D. fixed tool	2 (ER16)
		I.D. rotary tool	2 (ER16)
		Cross drill RPM	6,000rpm
Feed		Rapid feed rate	30m/min X1: 20m/min
		Min. command unit	0.0001mm
		C-axis min. command unit (Main/Sub)	0.0001°
Motor		Main spindle motor	2.2/1.5kW
		Cross drill motor	0.4/0.15kW(Mitsubishi) / 1.0kW(Fanuc)
		Sub spindle motor	0.75/0.3kW(Mitsubishi) / 1.1/0.5kW(Fanuc)
		Sub rotary motor	0.4kW(Mitsubishi) / 0.5kW(Fanuc)
		Coolant pump (Main/Sub)	0.25kW
		Lubricant pump	0.003kW
Dimensions and etc.		Main spindle center height	1,000mm
		Input power capacity	10KVA
		Air pressure/Flow rate	0.6MPa.30L/min
		Coolant tank	100L
		WxDxH	2,188 x 1,000 x 1,635mm
		Weight (Standard accessories included)	1,950kg
NC		NC UNIT	M80 Type A(Mitsubishi) / 0i-TF Plus (Fanuc)
		NC display	8.4 Color TFT LCD(Mitsubishi) / 10.4 Color TFT LCD(Fanuc)
		Memory capacity	500KB(Mitsubishi) / 2MB(Fanuc)
		No. of tool offset	256sets(Mitsubishi) / 128sets(Fanuc)

Machine Layout

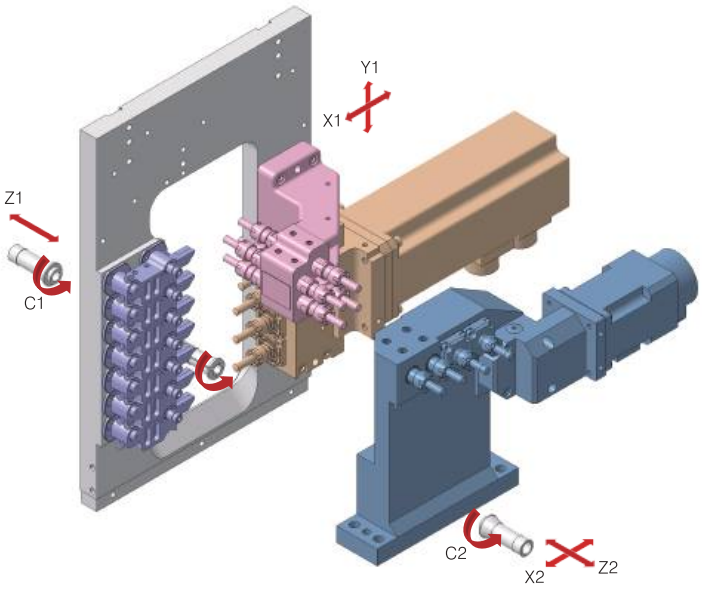


NN-10EX2

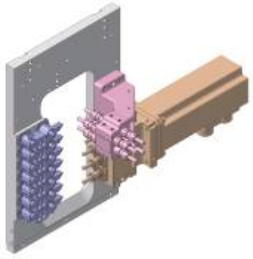
SWISS TYPE CNC AUTOMATIC LATHE

NOMURADS

Tool Layout



Main



Turning tool	6 tools
Cross drill	4 tools
I.D tool	4 tools
I.D tool (rear : OP)	4 tools

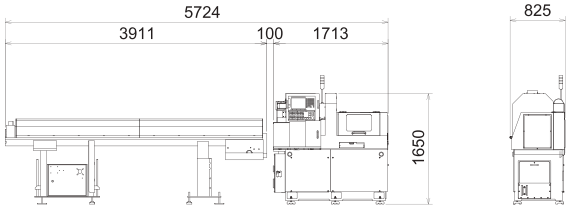
Sub

I.D tool	2 tools
I.D tool (driven)	2 tools

Specifications

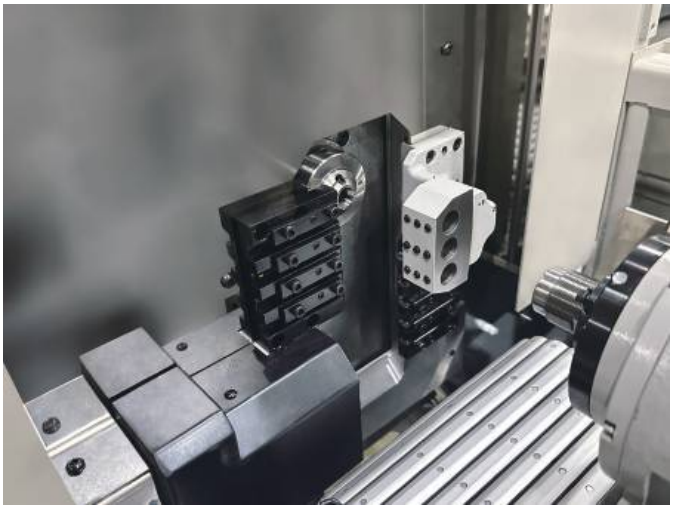
Content		Specification	Specification Value	
			10EX2	
Machining capacity		Max. machining diameter	Φ10mm	
		Max. machining length	110mm / 1 chuck	
		Max. parts unloading length	50mm	
Spindle		Main spindle through-hole diameter	Φ13mm	
		Spindle RPM (Main/Sub)	15,000rpm	
		Sub spindle chucking diameter	Φ10mm	
Tool	Type	Type	Standard	K
		Max. number of tools	22	
		Max. machining drill	Φ7mm	
		Max. machining tap	M6	
	Main	O.D. tool	6 (□10X100mm)	
		I.D. tool	4 (ER11) (OP : Rear 4)	
		Cross drill	4 (ER11)	
		Cross drill RPM	10,000rpm	
	SUB	I.D. fixed tool	4 (ER11)	2 (ER11)
		I.D. rotary tool	-	2 (ER11)
Feed		Rapid feed rate	30m/min X1: 20m/min	
		Min. command unit	0.0001mm	
		C-axis min. command unit (Main/Sub)	0.0001°	
Motor		Main spindle motor	3.7/1.5kW (Mitsubishi) 3.7/2.2kW (Fanuc)	
		Cross drill motor	0.4/0.15kW (Mitsubishi) 0.5kW (Fanuc)	
		Sub spindle motor	1.5/0.75kW (Mitsubishi) 1.1/0.75kW (Fanuc)	
		Sub rotary motor	0.4kW (Mitsubishi) 0.5kW (Fanuc)	
		Coolant pump	0.25kW	
		Lubricant pump	0.003kW	
Dimensions and etc.		Main spindle center height	1,000mm	
		Input power capacity	13KVA	
		Air pressure/Flow rate	0.6MPa.30L/min	
		Coolant tank	110L	
		WxDxH	1,713 x 825 x 1,650mm	
		Weight (Standard accessories included)	1,650kg	
NC		NC UNIT	M80 Type A (Mitsubishi) 0i-TF Plus (Fanuc)	
		NC display	8.4 Color TFT LCD (Mitsubishi) 10.4 Color TFT LCD (Fanuc)	
		Memory capacity	500KB (Mitsubishi) 2MB (Fanuc)	
		No. of tool offset	256 Sets (Mitsubishi) 128 Sets (Fanuc)	

Machine Layout

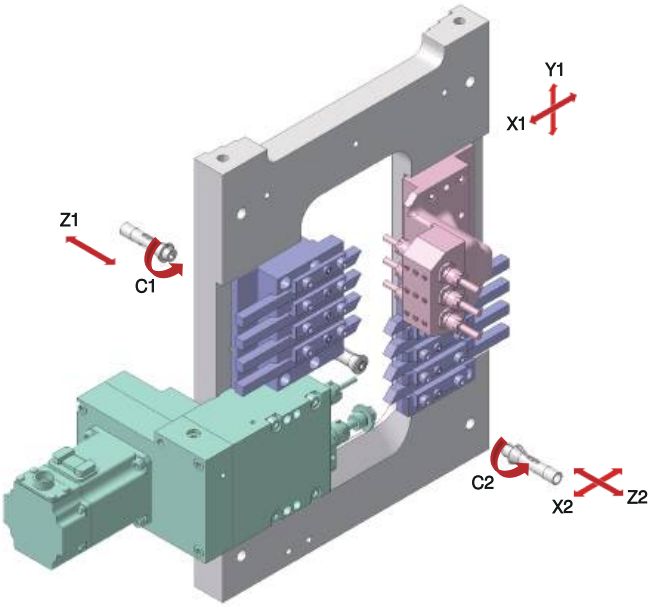


NN-3X

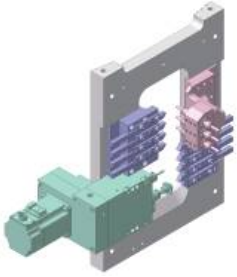
SWISS TYPE CNC AUTOMATIC LATHE



Tool Layout



Main



Turning tool	8 tools
Cross drill	2 tools
I.D tool	3 tools

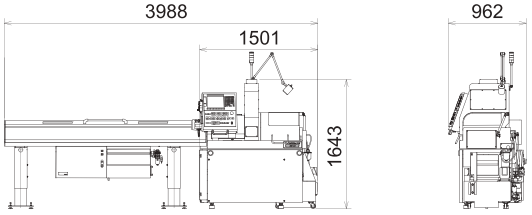
Sub

I.D tool(OP)	3 tools

Specifications

Content		Specification	Specification Value
			NN-3X
Machining capacity		Max. machining diameter	Φ3mm
		Max. machining length	30mm / 1 chuck
		Max. parts unloading length	30mm
Spindle		Main spindle through-hole diameter	Φ4mm
		Spindle RPM (Main/Sub)	16,000rpm
		Sub spindle chucking diameter	Φ3mm
Tool	Type	Max. number of tools	16(OP: 17)
		Max. machining drill	Φ2mm
		Max. machining tap	M1
	Main	O.D. tool	8 (□8X100mm max)
		I.D. tool	3(ER8)(OP:Rear 3)
		Cross drill	2 (ER11)(OP: 3)
		Cross drill RPM	9,000rpm
	SUB	O.D. tool	-
		I.D. fixed tool	-
		I.D. rotary tool	-
		Cross drill	-
		Cross drill RPM	-
Feed		Rapid feed rate	20m/min
		Min. command unit	0.0001mm
		C-axis min. command unit (Main/Sub)	0.0001°
Motor		Main spindle motor	1.1/0.75kW
		Cross drill motor	0.35kW
		Sub spindle motor	1.1/0.75kW
		Sub rotary motor	-
		Coolant pump (Main/Sub)	0.25kW
		Lubricant pump	0.003kW
Dimensions and etc.		Main spindle center height	950mm
		Input power capacity	9KVA
		Air pressure/Flow rate	0.6MPa. 30L/min
		Coolant tank	65L
		WxDxH	1,501 x 962 x 1,643 mm
		Weight (Standard accessories included)	1,000kg
NC		NC UNIT	0i-TF Plus (Fanuc)
		NC display	10.4 Color TFT LCD
		Memory capacity	2MB
		No. of tool offset	128sets

Machine Layout

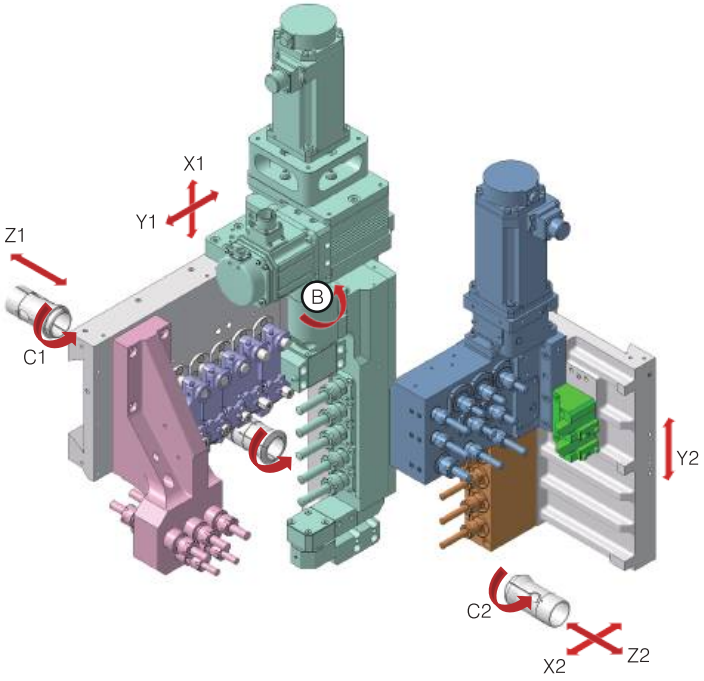


NN-38J-XB

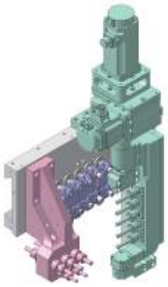
SWISS TYPE CNC AUTOMATIC LATHE

NOMURADS

Tool Layout



Main



Turning tool	5 tools
Cross drill	5 tools
I.D tool	5 tools
I.D tool (rear : OP)	5 tools

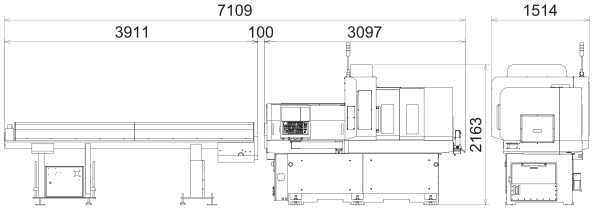
Sub

Turning tool	2 tools
Cross drill	4 tools
I.D tool	5 tools
I.D tool (driven)	5 tools

Specifications

Content		Specification	Specification Value
			NN-38JXB
Machining capacity		Max. machining diameter	Φ38mm
		Max. machining length	300mm / 1 chuck
		Max. parts unloading length	100mm
Spindle		Main spindle through-hole diameter	Φ43mm
		Spindle RPM (Main/Sub)	8,000rpm
		Sub spindle chucking diameter	Φ38mm
Tool	Type	Type	Standard
		Max. number of tools	31(OP : 32)
		Max. machining drill	Φ13mm
		Max. machining tap	M12
	Main	O.D. tool	5 (□16x150mm max)
		I.D. tool	5 (ER16X2, ER20x3)
		Cross drill	5 (ER20)
		Cross drill RPM	6,000rpm
	SUB	O.D. tool	2 (□16) (OP : 3)
		I.D. fixed tool	5 (ER16x4, ER20x1)
		I.D. rotary tool	5 (ER16)
		Cross drill	4 (ER16x3, ER20x1)
		Cross drill RPM	6,000rpm
Feed		Rapid feed rate	30m/min
		Min. command unit	0.0001mm
Motor		C-axis min. command unit (Main/Sub)	0.0001°
		Main spindle motor	7.5/5.5kW (Mitsubishi) / 11.0/5.5kW (Fanuc)
		Cross drill motor	1.5kW (Mitsubishi) / 2.2kW (Fanuc)
		Sub spindle motor	7.5/3.7kW (Mitsubishi) / 7.5/5.5kW (Fanuc)
		Sub rotary motor	1.5kW (Mitsubishi) / 2.2kW (Fanuc)
		Coolant pump (Main/Sub)	0.4kW
Dimensions and etc.		Lubricant pump	0.003kW
		Main spindle center height	1,100mm
		Input power capacity	25KVA
		Air pressure/Flow rate	0.6MPa. 45L/min
		Coolant tank	200L
		WxDxH	3,097x1,514x2,163mm
NC		Weight (Standard accessories included)	3,800kg
		NC UNIT	M80 Type A(Mitsubishi) / 0i-TF Plus(Fanuc)
		NC display	10.4" Color LCD
		Memory capacity	500KB (Mitsubishi) / 2MB (Fanuc)
		No. of tool offset	256 Sets (Mitsubishi)/ 128Sets (Fanuc)

Machine Layout

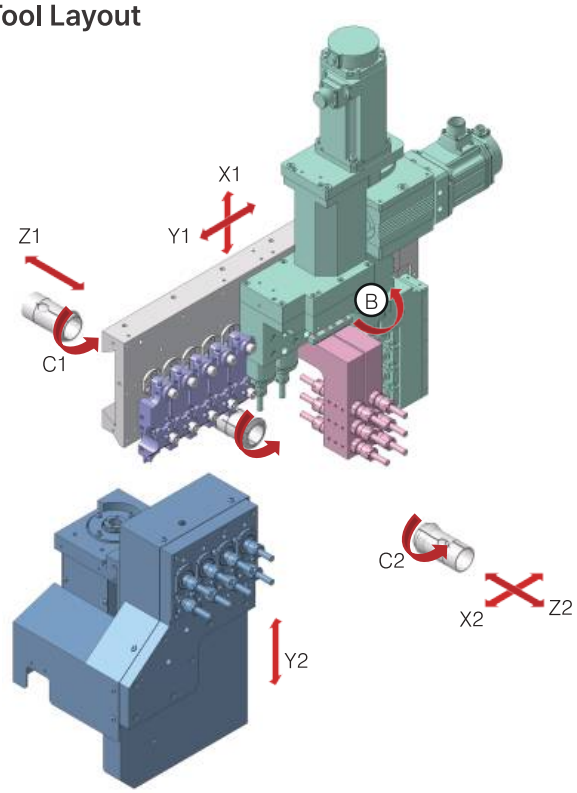


NN-38KM-XB

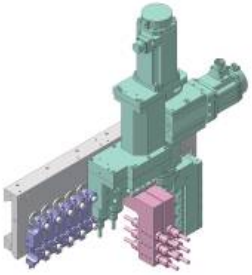
SWISS TYPE CNC AUTOMATIC LATHE

NOMURADS

Tool Layout



Main



Turning tool	5 tools
Cross drill	6 tools
I.D tool	6 tools
I.D tool (rear : OP)	6 tools

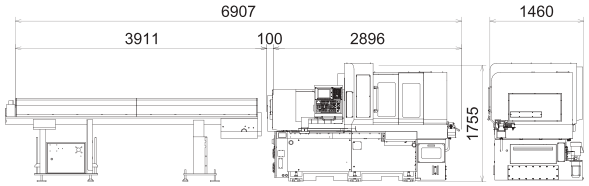
Sub

I.D tool	4 tools
I.D tool (driven)	4 tools

Specifications

Content		Specification	Specification Value
			NN-38KMXB
Machining Capacity		Max. machining diameter	Φ38mm
		Max. machining length	260mm / 1 chuck
		Max. parts unloading length	125mm
Spindle		Main spindle through-hole diameter	Φ43mm
		Spindle RPM (Main/Sub)	8,000rpm
		Sub spindle chucking diameter	Φ38mm
Tool	Type	Max. number of tools	27 (5 axis) / 31 (6 axis)
		Max. machining drill	Φ13
		Max. machining tap	M12
	Main	O.D. tool	5 (□16X150mm max)
		I.D. tool	6 (ER16) (OP : Rear 6)
		Cross drill	6 (ER16)
		Cross drill RPM	6,000rpm
	Sub	I.D. fixed tool	2 (ER16) (5 axis) / 4 (ER16) (6 axis)
		I.D. rotary tool	4 (ER16) (5 axis) / 4(ER16) (6 axis)
		Sub drill RPM	6,000rpm
Feed		Rapid feed rate	32m/min, (OP' Y2 : 24m/min)
		Min. command unit	0.0001mm
		C-axis min. command unit (Main/Sub)	0.0001°
Motor		Main spindle motor	7.5/5.5kW (Mitsubishi) / 11.0/7.5kW (Fanuc)
		Cross drill motor	1.5kW (Mitsubishi) / 2.2kW (Fanuc)
		Sub spindle motor	7.5/3.7kW (Mitsubishi) / 7.5/5.5kW (Fanuc)
		Sub rotary motor	0.9kW (Mitsubishi) / 1.0kW (Fanuc)
		Coolant pump	1.1kW
		Lubricant pump	0.003kW
Dimensions and etc.		Main spindle center height	1,025mm
		Input power capacity	24KVA
		Air pressure/Flow rate	0.6MPa. 45L/min
		Coolant tank	250L
		WxDxH	2,896x1,460x1,755 mm
		Weight (Standard accessories included)	3,800kg
NC		NC UNIT	M80 Type A(Mitsubishi) / 0i-TF Plus(Fanuc)
		NC display	8.4 Color TFT LCD(Mitsubishi) / 10.4 Color TFT LCD(Fanuc)
		Memory capacity	500KB(Mitsubishi) / 2MB(Fanuc)
		No. of tool offset	256sets(Mitsubishi) / 128sets(Fanuc)

Machine Layout

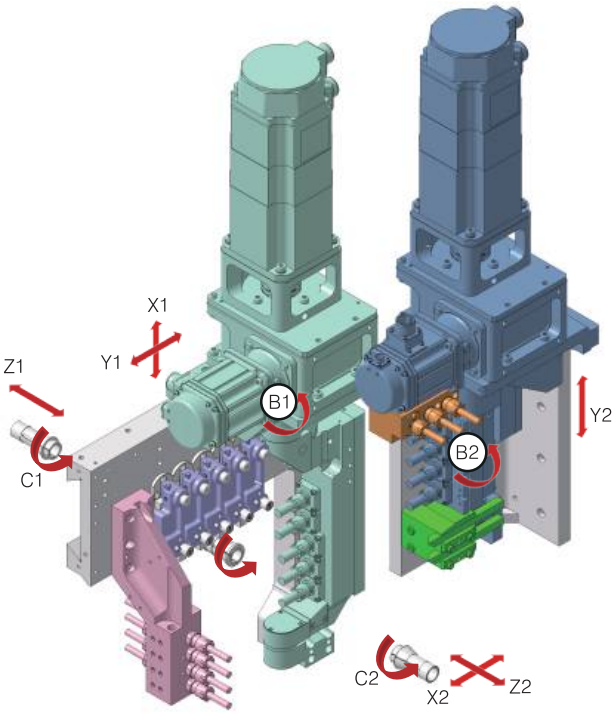


NN-20J3-XB

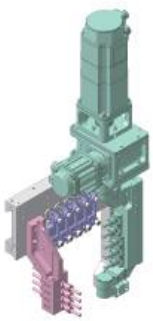
SWISS TYPE CNC AUTOMATIC LATHE

NOMURADS

Tool Layout



Main



Turning tool	5 tools
Cross drill	5 tools
I.D tool	4 tools
I.D tool (rear : OP)	4 tools

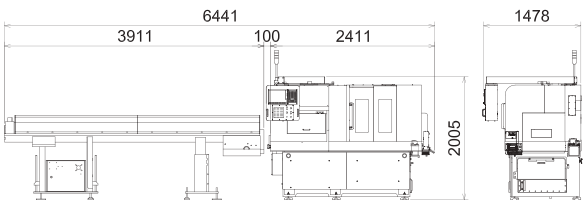
Sub

Turning tool	2 tools
Cross drill	4 tools
I.D tool	3 tools

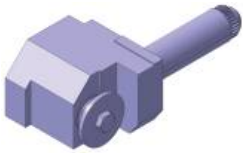
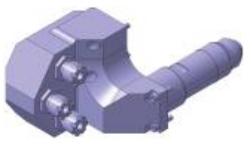
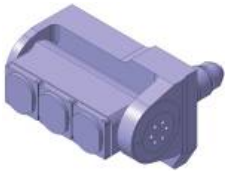
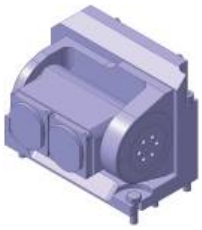
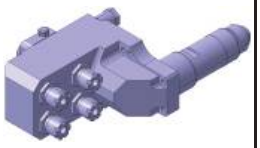
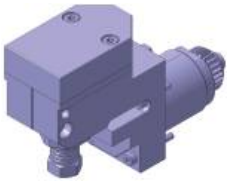
Specifications

Content		Specification	Specification Value		
			NN-20J3XB		
Machining capacity		Max. machining diameter	Φ20mm		
		Max. machining length	200mm / 1 chuck		
		Max. parts unloading length	93mm		
Spindle		Main spindle through-hole diameter	Φ23mm		
		Spindle RPM (Main/Sub)	10,000rpm		
		Sub spindle chucking diameter	Φ20mm		
Tool	Type	Type	Type A	Type B	Type C
		Max. number of tools	29	28	27
		Max. machining drill	Φ10mm		
		Max. machining tap	M8		
	Main	O.D. tool	5 (□12.7X150mm)	6 (□12.7X150mm)	5 (□12.7X150mm)
		I.D. tool	4 (ER16) (OP : Rear 4)		
		Cross drill	5 (ER16)(B1 axis)	5 (ER16)	5 (ER16)(B1 axis)
		Cross drill RPM	6,000rpm		
	SUB	O.D. tool	2 (□12.7X150mm max)		
		I.D. fixed tool	3 (ER16)		
		I.D. rotary tool	3 (ER11)	—	
		Cross drill	3 (ER16)	4 (ER16)(B2 axis)	4 (ER16)(B2 axis)
		Cross drill RPM	6,000rpm		
Feed		Rapid feed rate	X1,Y1,X2,Y2 : 28m/min Z1,Z2 : 30m/min		
		Min. command unit	0.0001mm		
		C-axis min. command unit (Main/Sub)	0.0001°		
Motor		Main spindle motor	3.7/1.5kW		
		Cross drill motor	1.5/0.55kW (Mitsubishi), 1.0kW (Fanuc)		
		Sub spindle motor	3.7/1.5kW		
		Sub rotary motor	1.5/0.55kW (Mitsubishi), 1.0kW (Fanuc)		
		Coolant pump (Main/Sub)	0.25kW X 2		
		Lubricant pump	0.015kW		
Dimensions and etc.		Main spindle center height	1,010mm		
		Input power capacity	17KVA		
		Air pressure/Flow rate	0.6MPa. 35L/min		
		Coolant tank	160L		
		WxDxH	2,411x1,478x2,005 mm		
		Weight (Standard accessories included)	2,800kg		
NC		NC UNIT	M80 Type A(Mitsubishi) / 0i-TF Plus(Fanuc)		
		NC display	10.4 Color TFT LCD		
		Memory capacity	500KB(Mitsubishi) / 2MB(Fanuc)		
		No. of tool offset	256sets(Mitsubishi) / 128sets(Fanuc)		

Machine Layout

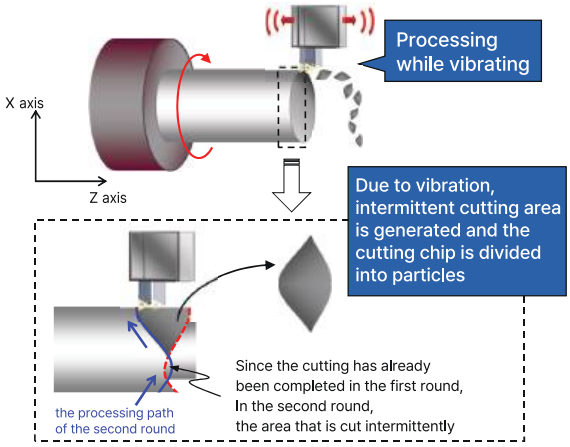


NOMURA DS Special tool

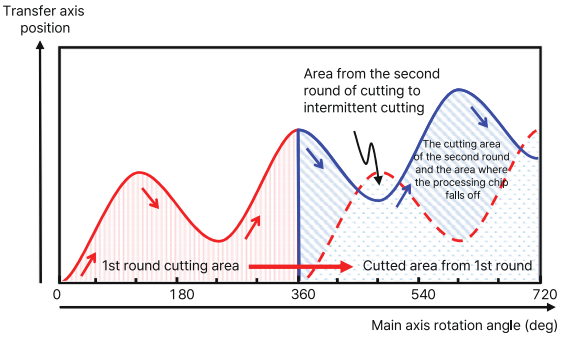
				
Drilling/Milling	Drilling/Milling	Polygon	Eccentric Drilling (E1)	Eccentric Drilling (E2)
Eccentric Drilling (E3)	Angle(90°)	Whirling	Gear Hobbing	Whirling
				
Eccentric Drilling (E3)	Angle(90°)	Gear Hobbing	Angle(90°)	Angle(90°)
				
Eccentric Drilling (E4)	Triple speed Drilling/Milling	Drilling/Milling	Slotting	Cross Drilling

Micro Vibration Turning - MVT

- By processing the transfer shaft while vibrating in the cutting direction, the cutting chip is divided into small pieces.


Processing while vibrating
X axis
Z axis
Due to vibration, intermittent cutting area is generated and the cutting chip is divided into particles
Since the cutting has already been completed in the first round, In the second round, the area that is cut intermittently
the processing path of the second round

- The cutting chip is divided, so it is easy to process the processing chip
- Heat is suppressed and tool life is improved
- Easy processing of rough materials at high speed


Transfer axis position
Area from the second round of cutting to intermittent cutting
The cutting area of the second round and the area where the processing chip falls off
1st round cutting area
Cutted area from 1st round
0
180
360
540
720
Main axis rotation angle (deg)

Special feature

- The cutting chip can be divided by giving the transfer shaft vibrations synchronized with the rotation of the main shaft to generate intermittent cutting areas during cutting processing, High-speed processing is possible that facilitates the processing of rough materials such as stainless steel.
- Because the cutting chips are divided, the processing of the cutting chips becomes easier.
- Since it suppresses heat generation during cutting processing, tool life can be improved.

Cutting chip when not in use with vibration cutting control function

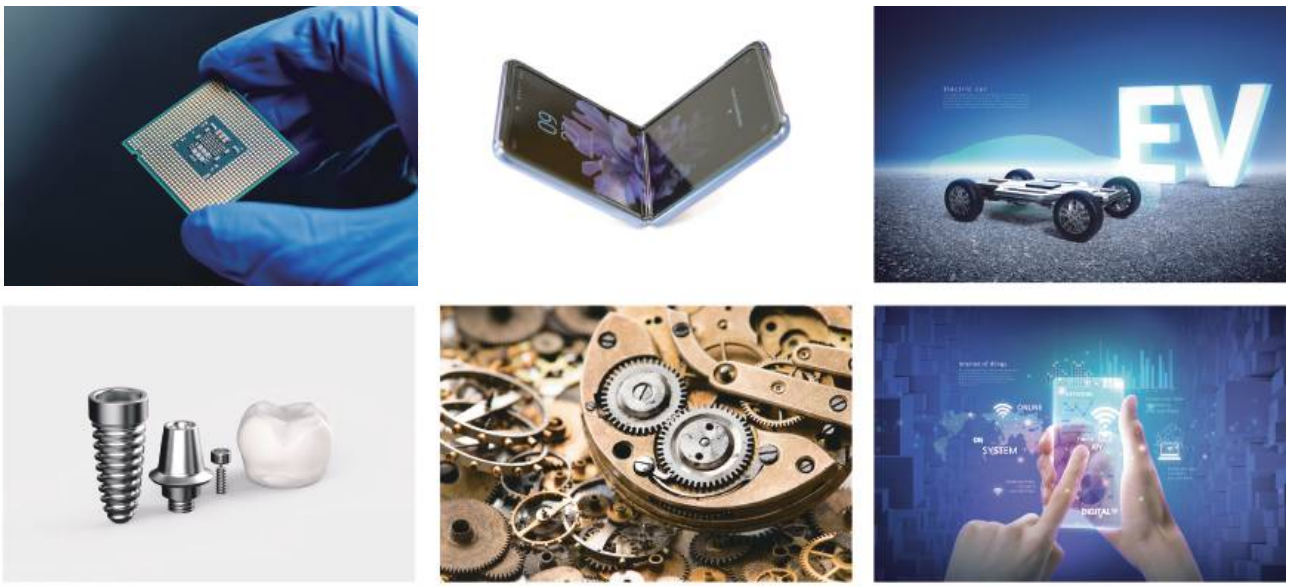
Cutting chip when applying vibration cutting control function

NOMURA DS Option Table

◆ option available ◇ custom-made

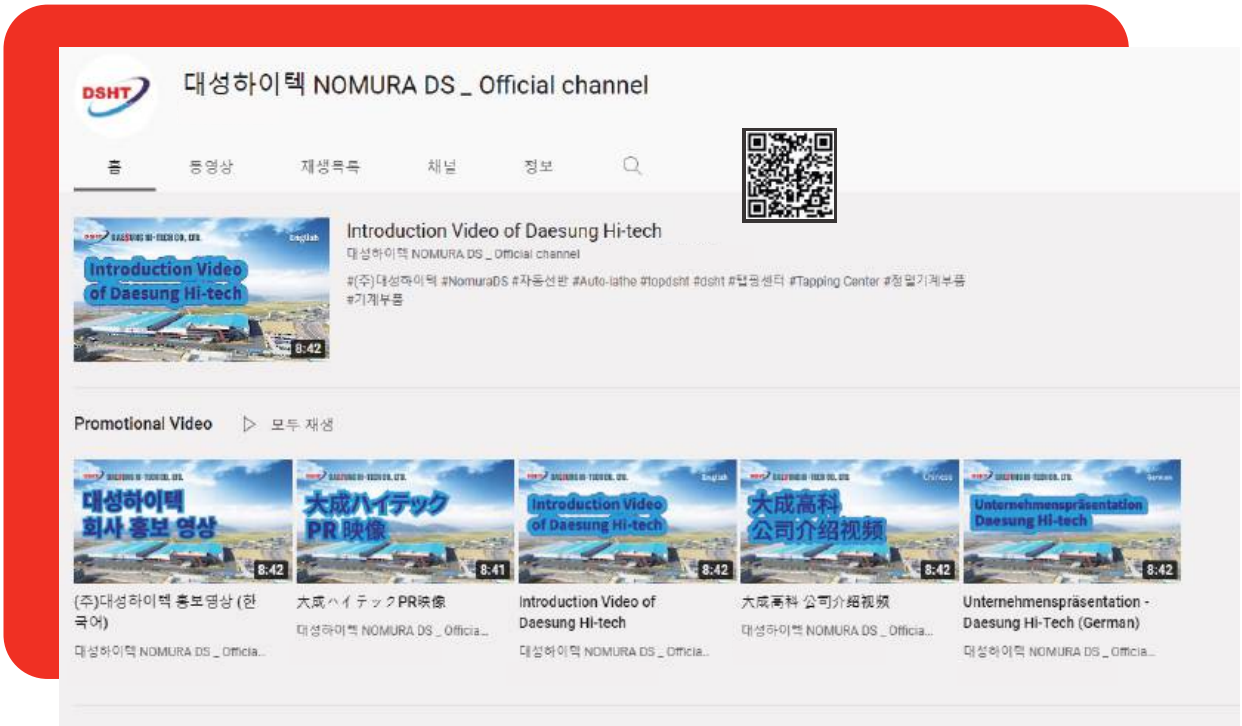
	Option	38DB	38J	38KM	38UB8	32DB	32J	32UB8	26KM	25UB8	20J3	20SB	20UB8	16SB7	10J	10EX2
Main Tool	Eccentric tool (E3/E2/E1)	◇	◆	◆	◆	◇	◆	◆	◇	◆	◆	◆	◆	◆	◆	◆
	Whirling unit	-	◇	-	◆	-	◇	-	-	◆	◆	-	◆	-	-	-
	Angle drilling unit	-	◆	◆	◆	-	◆	-	-	◆	◆	-	◆	-	-	-
	Gear hobbing	-	◆	-	◆	-	◆	-	-	-	◆	-	-	-	-	-
	Triple speed cross drill	-	-	-	-	-	-	-	-	◆	-	◆	◆	-	-	-
	Polygon tool	-	◆	-	-	-	◆	-	-	-	-	-	-	-	-	-
	Long drill holder	-	-	-	◆	-	-	-	◆	-	-	-	-	-	-	-
Sub Tool	Slotting tool	-	-	◆	-	-	-	-	◇	-	-	◆	-	◆	-	◆
	Cross drilling unit	-	-	-	-	-	-	-	-	◆	-	-	◆	-	-	-
	Quadruple speed eccetntric drill	-	-	-	-	-	-	-	-	-	-	-	-	◆	-	-
Utilities	Fixed guide bush	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
	Oil mist collector	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
	High pressure coolant device (70Bar/120Bar)	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
	Automatic fire extinguisher	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
	Tool presetter	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
	Chip conveyor	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
	Smart chip conveyor	◇	◆	-	◆	◇	◆	-	-	-	◆	-	-	-	◆	-
	Screw chip conveyor	-	◆	-	◆	-	◆	-	-	-	◆	-	-	-	◆	-

NOMURA CNC Applicable Industries

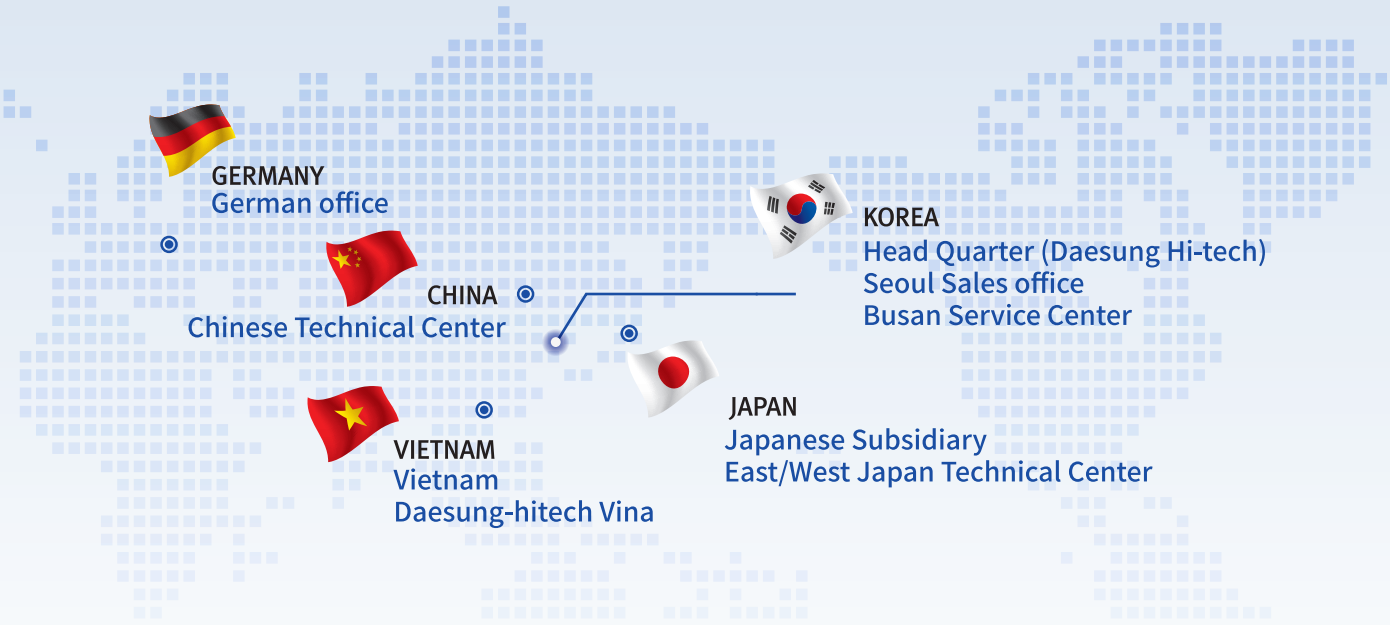


NOMURA DS YouTube CHANNEL

YouTube



Overseas Technical Center



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NOMURADS

DSHT DAESUNG HI-TECH CO., LTD.

Specifications may be subject to change without prior notice
(for the purpose of quality improvement and function)

V_4411 F3_SW